UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION II**

DATE:

APR 1 2 2013

SUBJECT:

Removal Site Evaluation for the Matlack, Inc. Site, Woolwich Township,

Gloucester County, New Jersey

FROM:

Margaret (Alferman) Gregor, On-Scene Coordinator Mayaurgregor

Removal Action Branch

TO:

Joseph D. Rotola, Chief

Removal Action Branch

SITE ID:

02P9; CERCLIS# NJD043584101

I. INTRODUCTION

On August 9, 2011, the United States Environmental Protection Agency (EPA) received a request from the New Jersey Department of Environmental Protection (NJDEP) to evaluate the Matlack Inc. Swedesboro Terminal Site (Site) for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Removal Action consideration and recommend the Site for inclusion on the National Priorities List (NPL). The Site was proposed for NPL inclusion on September 14, 2012. The Site is located on the south side of Route 322 (2160 Route 322 East; Block 6, Lot 5) in a mixed industrial, residential and rural area of Woolwich Township, New Jersey. It is a 70.26-acre parcel currently occupied by Liberty Kenworth, a medium and heavy duty truck sales and service center. Current on-site operations are limited to the northeastern portion of the Site, which is developed with an approximately 20,000-square foot, 14-bay service building and paved parking areas. A building of approximately 2,600 square feet housing a groundwater remediation system operated by NJDEP is located to the south of the service building. The remainder of the property is scrub brush and fields.

The Site is bordered by Route 322 to the north, undeveloped farmland to the east, Raccoon Creek and commercial property occupied by Interstate Aerial and Venezia Transportation to the south, and a portion of the Raccoon Creek Wildlife Management Area to the west. Grand Sprute Run runs northeast to southwest through the Wildlife Management Area adjacent to the west; this is a tributary to Raccoon Creek, which flows into the Delaware River approximately 5.5 miles downstream. There are seven residences and one commercial property located directly to the north of the Site across Route 322. There are 24 potable water wells within a four-mile radius of the Site, including one on-site which supplies the service building. Groundwater in the area generally flows to the west-southwest, although it has been recently reported that groundwater in the Site vicinity flows in a north/northwesterly direction towards Grand Sprute Run. A Site Location Map is included as Attachment A.

From the early to mid 1900s until 1962, the Site was occupied as a sand and gravel quarry on the northern third of the parcel. From 1962 until 2001, Matlack, Inc. (Matlack) occupied the Site as a trucking terminal. On-site operations from 1962 to 1997 included truck maintenance and parking and truck, trailer and tanker washing. Tankers, which had held a variety of substances including oils, xylenes, benzene, toluene, glycol, styrene, wax, alum, resins, acids, naphthalene, various organic solvents, flammable substances, coal tar and hazardous wastes, were purged of residual materials and rinsed with a steam and detergent water solution along with either a mild caustic or acid solution. Approximately five percent of the tankers were cleaned with an organic solvent solution, which reportedly contained tetrachloroethene (PCE), methylene chloride, toluene, trichloroethene (TCE), acetone, methanol and/or ethanol. These operations generated between 10,000 and 15,000 gallons of waste water per working day. From 1962 to 1976, this waste water was discharged to an unlined lagoon (also referred to as surface impoundment or disposal pit) which was a former sand and gravel borrow pit, presumably from the historic quarrying operations on-site. The lagoon was located on-site to the southwest of the terminal building and was approximately 1.8 acres in size and 12 to 15 feet deep, intersecting the water table which varies between approximately six and 20 feet below ground surface (bgs).

In 1976, Matlack, Inc. began transporting the waste water off-site for disposal, following pretreatment (oil/water separation, pH adjustment and chemical/physical flocculation) and storage in two 18,000-gallon, open-top, in-ground concrete tanks. The waste water lagoon was subsequently pumped and filled with a variety of demolition debris, soil and other fill from an unknown source; sludge was left in place after the lagoon was pumped. Waste materials, including crushed drums, drum liners and lids, oil filters, burnt wood fragments, copper and lead piping, plastic, glass, cardboard, metal scraps, concrete, and black- and brown-streaked sand, were later observed in the 1980s during collection of soil borings from the lagoon. Matlack, Inc. discontinued tanker cleaning operations in November 1997, but continued to service and store vehicles at the Site until 2001 when Matlack, Inc. ceased operations and filed for Chapter 11 bankruptcy. Liberty Kenworth began operating at the Site in February 2008.

Numerous investigative and remedial activities have occurred at the Site under NJDEP direction since 1982. In December 1982, the NJDEP advanced hand auger boreholes within the former lagoon area as part of an investigation in the vicinity of the Site, and chemical odors were noted. In May 1983, the NJDEP collected three soil samples from the former lagoon area, and analysis revealed elevated concentrations of PCE, TCE, toluene and other volatile organic compounds (VOCs). Hydrogeological investigations conducted by Matlack from 1984-1986 under NJDEP direction revealed the presence of buried metallic objects in the former lagoon area, including a buried crushed drum containing 31% TCE, 17% PCE, 1.7% xylenes and 0.7% toluene. A soil sample collected from beneath the drum exhibited TCE at 82,000 parts per million (ppm), PCE at 52,000 ppm, toluene at 1,140 ppm and ethylbenzenes at 253 ppm.

On May 26, 1987, the NJDEP and Matlack, Inc. entered into an Administrative Consent Order (ACO) which required Matlack, Inc. to conduct an interim remedial measure (IRM) at the Site, perform a remedial investigation and post financial assurance in the amount of two million dollars. The remedial investigation, which included installation of on- and off-site groundwater monitoring wells, was completed in 1990 and suggested that the two primary sources of

contamination on-site were two waste oil underground storage tanks (USTs) and an area of a diesel fuel line leak. The buried waste tanks, each 10,000 gallons in capacity, were removed in spring 1992 and the contaminated soils resultant from the diesel fuel line leak were removed between August 1992 and April 1993. Nine additional USTs and associated piping and contaminated soil were removed from areas surrounding the on-site terminal building in September 1999. The tanks ranged in size from approximately 4,000 to 20,000 gallons and contained diesel fuel, new or used motor oil, or heating oil. All excavations were backfilled with clean fill and/or un-impacted excavated soil.

A total of approximately 47 ground water monitoring wells, pumping wells and piezometers have been installed on and around the Matlack property. Numerous ground water investigations since 1984 have revealed that a plume of chlorinated solvents and other volatile and semivolatile organic compounds is migrating westward from the Site and into Grand Sprute Run approximately 600 feet to the west (in some areas over 1,300 feet from the former lagoon), in the adjacent Raccoon Creek Wildlife Management Area. Hydrogeological investigations have indicated that the shallow aguifer beneath the Site (known as the Pensauken Formation) flows north-northwest beneath the former lagoon area and discharges, likely along several troughs in the underlying clay layer, to Grand Sprute Run, which also flows on the top of the clay layer that serves as a boundary for the aquifer. Soil sampling of the former lagoon area in September 2008 revealed concentrations of PCE reaching up to 48 ppm and TCE up to 350 ppm. In May 2000 and September 2008, PCE was detected in two groundwater wells located approximately 220-250 southwest of the former lagoon area at 13,600 ppb and 12,000 parts per billion (ppb); other compounds included TCE at 1,300 ppb, 1,1,1-trichloroethane (1,1,1-TCA) at 8,100 ppb, benzene at 92 ppb and additional VOCs in nearby wells. VOCs have been detected in a monitoring well located more than 1,200 feet west of the former lagoon area, including PCE at 3,040 ppb and TCE at 28 ppb in August 2006. Most recently, in April 2012, EPA completed groundwater sampling at six monitoring wells and one piezometer located on and in the vicinity of the Matlack property. Results indicated PCE levels up to 3,000 ppb and TCE levels reaching 160 ppb between the former lagoon area and Grand Sprute Run. VOCs were not detected in wells upgradient of the former lagoon area.

A groundwater remediation system was installed at the Site in 1994 as Matlack's IRM required by the ACO with the NJDEP, consisting of twelve recovery/monitoring wells located downgradient of the former waste tanks and lagoon area, an infiltration trench located upgradient of the former lagoon area, and an aerator system which removes VOCs prior to re-injection of the groundwater. This system operated intermittently, from November 1995 through May 1997 and from November 2000 through January 2001 when Matlack went bankrupt. The NJDEP evaluated and repaired the system, and reactivated it in 2006. The system is currently treating impacted groundwater on-site and is being maintained by the NJDEP. However, based on groundwater sampling results, it appears that this system is not sufficiently containing the Site-related groundwater VOC plume.

It should be noted that potable well water at the residences and commercial properties adjacent to the Site does not appear to have been impacted by Site contaminants. Potable water sampling events were conducted at the four residences adjacent to the north of the Site in May 2002, January 2003 and August 2008; the 2008 event included an additional residence near the others.

The samples were analyzed for VOCs, semivolatile organic compounds (SVOCs), pesticides (except 2008), polychlorinated biphenyls (PCBs; except in 2008), metals and mercury (2008 only). Several compounds have been present above drinking water standards, including lead at one residence in 2003 (at 169 ppb, above the NJDEP standard of 5 ppb), aluminum, iron and magnesium at several of the residences in 2003, and lead in four of five residences in 2008 (up to 15.2 ppb). Based on the direction of groundwater flow in the area and the nature of the contaminants, it does not appear that the elevated levels of metals are due to Site activities. The potable water well on-site within the Liberty Kenworth terminal building has been sampled routinely and has contained acetone, 1,4-dichlorobenzene and methylene chloride (all common laboratory contaminants) at concentrations below drinking water Maximum Contaminant Levels. Water is treated for taste and odor control via activated carbon and is softened and pH adjusted.

Sampling of the seeps along Grand Sprute Run, where the water table meets the ground surface and runs down the banks and into the stream, was first conducted in 2000 and revealed concentrations of PCE up to 923 ppb and TCE up to 179 ppb in surface water. PCE levels reached 330 and 220 ppb in 2005 and 2008, respectively, in areas directly to the west of the former lagoon area. Sediment sampling conducted along the banks of Grand Sprute Run in February 2000 and June 2005 revealed elevated concentrations of PCE ranging from 0.465 ppm to 25 ppm and TCE concentrations up to 2.1 ppm. These sampling events were conducted by the NJDEP and indicated that contaminated groundwater from the Site is discharging into Grand Sprute Run.

EPA conducted removal assessment activities at the Site in spring 2012 focused on the release into Grand Sprute Run. On March 29, 2012, EPA identified total of six seeps, denoted Seeps A through F, along the banks of Grand Sprute Run in areas where VOC contamination was either present during the 2000, 2005 or 2008 NJDEP sampling events, or could potentially be found based on the direction of groundwater flow in the area. Between April 9 and 16, 2012, EPA sampled the surface water and sediment at 27 locations along Grand Sprute Run and its seeps, as well as pore water at several locations, to determine whether the VOC plume emanating from the Site poses an acute risk to ecological receptors in the area. The sampling points included a total of 20 locations at transects of each of the six seeps: the location where the groundwater exited the bank, the corresponding location within the stream and at least one point between those two locations. In addition, samples were collected from Grand Sprute Run in three downstream locations, two mid-stream locations between seeps and two upstream locations north of Route 322. All samples were analyzed for VOCs, SVOCs, PCBs and metals, including mercury and cyanide. A Sample Location Map which includes all PCE and TCE results is included as Attachment B. The Trip Report for this assessment is included as Attachment C.

Results indicated the presence of VOC contamination along Grand Sprute Run; VOCs were detected in the surface water, sediment and/or pore water at 24 of the 27 locations sampled. Although most of the detections were low-level, in Seep D, PCE concentrations were detected up to 1,700 ppb in surface water and up to 11 ppm in sediment, and TCE concentrations reached 150 ppb in surface water and 1.0 ppm in sediment. Many other VOCs were detected in several locations within surface water, sediment and pore water, including 1,1,1-TCA, 1,1-ichloroethane (1,1-DCA), cis-1,2-DCE, benzene and chlorobenzene. Numerous SVOCs, including benzo(a)pyrene up to 1.8 ppm, were detected in sediment. Low levels of PCBs (less than

approximately 54 ppb), including Aroclor-1260 and Aroclor-1242, and low levels of cyanide (less than approximately 7.9 ppm) were detected in some of the sediment samples; however, neither of these contaminants were detected in surface water or pore water. Sampling results are included as Attachment D. This assessment did not completely define the extent of the contamination at the Site, as low-level VOCs were detected in the furthest downstream sampling location.

Only two detections of VOCs in the surface water within Grand Sprute Run (and eight additional detections in the surface water within the seeps) exceeded EPA's Maximum Contaminant Levels (MCLs) for drinking water, and several additional detections exceeded the conservative EPA Surface Water Human Health Criteria. Two PCE detections in sediment exceeded the nonresidential NJDEP Soil Cleanup Criteria, but these detections were below the applicable EPA Screening Level. One TCE detection in sediment exceeded the EPA Screening Level, but was below the non-residential NJDEP Soil Cleanup Criteria. No exceedences were detected within pore water. Most of the surface water and sediment exceedences were located within Seeps D and E, which are heavily vegetated and not easily accessible. Although turkey hunting occurs in the Raccoon Creek Wildlife Management Area along Grand Sprute Run, EPA did not observe evidence of human activity near the areas where higher levels of contamination exist (Seeps D and E). No manmade structures, paths or refuse were observed in these locations, and it did not appear that Grand Sprute Run is utilized as a drinking water source or for frequent recreation. Therefore, the human ingestion and direct contact exposure pathways associated with the on-site surface water and sediment contamination are not complete and significant enough to present an imminent and substantial endangerment to public health or welfare.

To evaluate the risk to ecological receptors posed by the contamination along Grand Sprute Run, EPA's Environmental Response Team reviewed all sampling results and completed a Screening Level Aquatic Ecological Risk Analysis (SLERA) of PCE and TCE in Surface Water, Sediment and Pore Water Samples for the Site. The data were evaluated for low-level, chronic exposures against Screening Ecological Values (SEVs) for surface water and sediment. In sediment, four PCE detections (within Seeps C, D and E) exceeded the SEV and one TCE detection (in Seep D) exceeded the SEV; however, the data showed mostly low magnitudes of exceedences, and only one PCE detection (in Seep D) exceeded the SEV by a significant amount. In surface water, only one PCE sample exceeded the SEV, and no TCE samples exceeded the conservative SEV. The highest PCE detection in surface water was orders of magnitude below levels which may be lethal to local organisms within four days. Overall, the analysis concluded that "it does not appear that any of the results indicate an immediate or acute threat to life or survival of the ecological receptors." Chronic, sub-lethal (growth and reproduction) effects may occur and may stress some populations of aquatic invertebrates and/or fish via direct exposure in isolated areas, but these limited effects are not expected to affect the ecosystem as a whole. In addition, PCE and TCE are not bioaccumulative compounds; therefore, their presence on-site is not expected to impact the food chain or the overall structure of the ecosystem. The SLERA is included as Attachment E. This information may be utilized by EPA's remedial program if the Site is finalized on the NPL.

Findings of the removal assessment field work indicates that there has been a release of CERCLA-designated substances (as defined in Section 101[14] of CERCLA, 42 U.S.C. § 9601) at the Site, which is a facility as defined under section 101(9) of CERCLA. Low-level VOCs were detected in soil and surface water over an area of approximately 0.3 mile along Grand Sprute Run, as estimated using an aerial photograph, and elevated VOC levels are present in limited areas. Despite the presence of hazardous substances in the soil and surface water, conditions at the Site do not meet the requirements of Section 300.425 (b) of the National Contingency Plan for the undertaking of a CERCLA removal action at this time. The ecological risk analysis indicated that PCE and TCE are not present on-site in sufficient concentrations to represent an immediate or acute threat to the ecosystem or impact the food chain or the ecosystem as a whole. Due to the planned listing of the Site on the NPL, there will be an appropriate response mechanism to address the risk of long-term, sub-lethal chronic exposure posed to the certain organisms along Grand Sprute Run. In addition, based on site observations and current information, human contact with contaminated soil and surface water is minimal and there is not a complete exposure pathway to humans that presents an imminent and substantial endangerment to the public health or welfare from the on-site contamination. Based on the available information, a CERCLA removal action is not warranted at this time.

A copy of this RSE and information regarding EPA's assessment activities will be provided to the EPA Remedial Program and NJDEP. The EPA's Remedial Program will continue to monitor potential threats posed by the Site and will continue to evaluate options to remediate the Site as appropriate.

cc: J. Rotola, ERRD-RAB

E. Wilson, ERRD-RAB

J. Davila, ERRD-SPB

R. Hayton, NJDEP

LIST OF ATTACHMENTS

ATTACHMENT A: Site Location Map

ATTACHMENT B: Sample Location Map with PCE and TCE Analytical Results

ATTACHMENT C: Surface Water Migration Pathway and Removal Assessment Sampling Trip Report

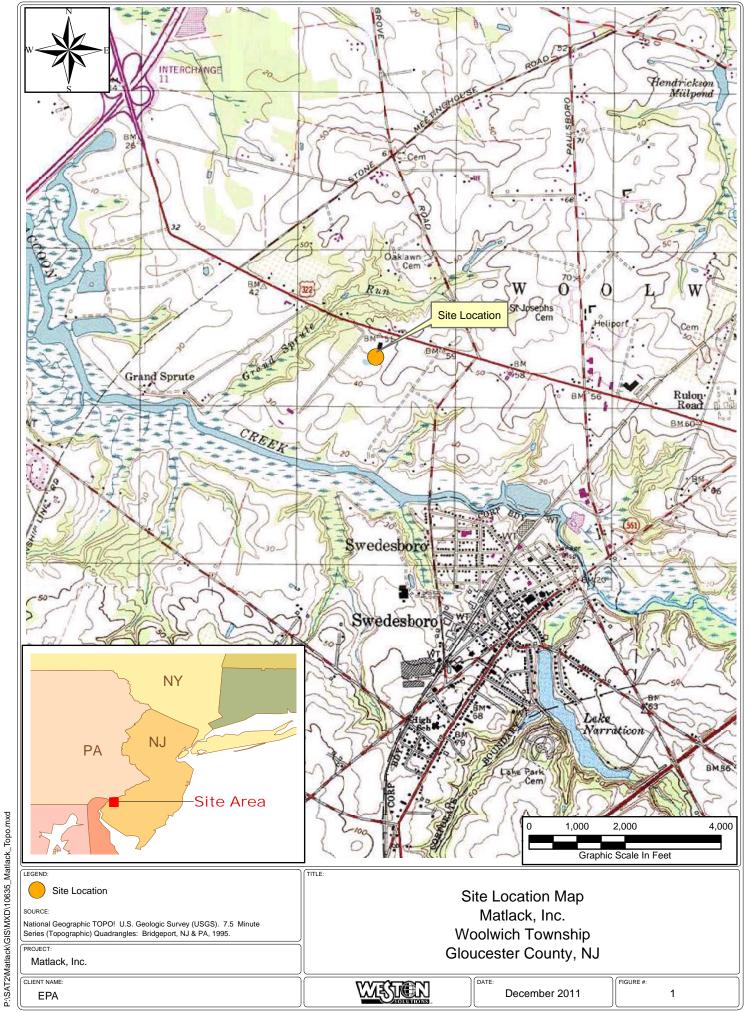
ATTACHMENT D: Removal Assessment Validated Data Tables

ATTACHMENT E: Screening Level Aquatic Ecological Risk Analysis of PCE and TCE Surface Water,

Sediment and Pore Water Samples Collected 9-16 April, 2012

ATTACHMENT A

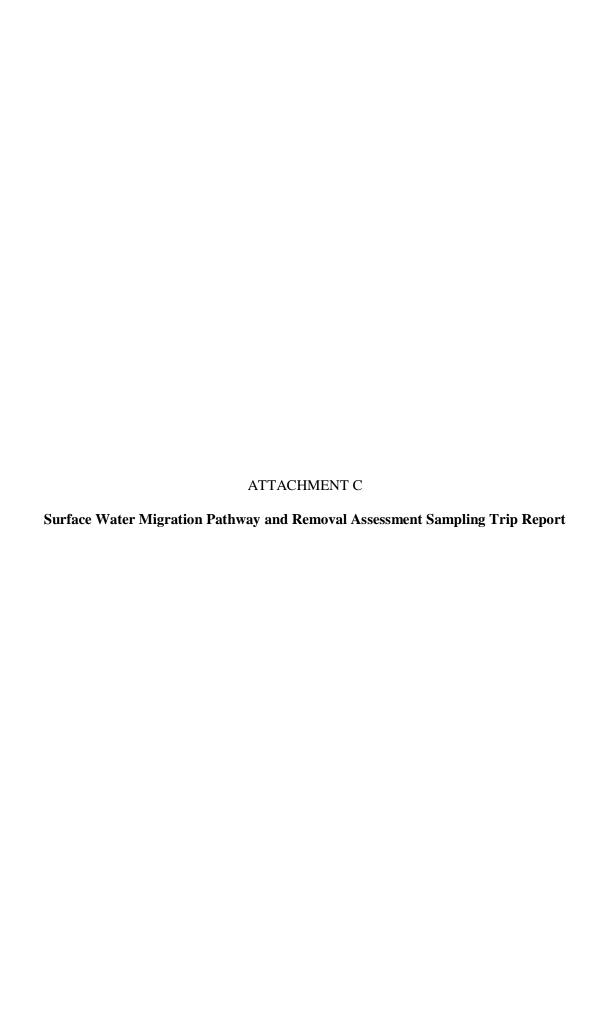
Site Location Map



ATTACHMENT B

Sample Location Map with PCE and TCE Analytical Results







WESTON SOLUTIONS, INC. 205 CAMPUS DRIVE EDISON, NEW JERSEY 08837 732-417-5800 • FAX: 732-417-5801

The Trusted Integrator for Sustainable Solutions

May 2, 2012

Ms. Margaret Alferman, On-Scene Coordinator U.S. Environmental Protection Agency 2890 Woodbridge Ave MS-211 Edison, NJ 08837-3679 Mr. Juan Davila, Work Assignment Manager U.S. Environmental Protection Agency 290 Broadway - 18th Floor New York, NY 10007-1866

Document Control Nos.: 1645-2A-AVSM and RST2-02-F-1998

Subject: Surface Water Migration Pathway and Removal Assessment Sampling Trip Report

Matlack Inc.

Contract No.: EP-S5-06-04, TDD No.: S05-0013-1110-012 EP-W-06-072, TDD No.: TO-0024-0204

Dear Ms. Alferman and Mr. Davila,

Weston Solutions, Inc. (WESTON®) is pleased to submit the Sampling Trip Report for samples collected during the Matlack Inc. surface water migration pathway sampling event. WESTON personnel collected surface water, sediment, and pore water from locations in and adjacent to Grand Sprute Run, including samples collected from locations to demonstrate background conditions. Samples were collected from April 9 through April 16, 2012.

The Sample Location Map (Figure 2) and Attachment 1 (traffic reports/chain of custody records and airbills) are included in this Sampling Trip Report. If you have any questions, please contact me at (732) 417-5808 or Edmund Knyfd at (732) 585-4441.

Very truly yours,

Michele Capriglione

WESTON SOLUTIONS, INC.

Michele Capriglione Principal Project Scientist

enclosure

cc: E. Knyfd, WESTON

C. Romano, EPA (w/o enclosure)
I. Acosta, EPA (w/o enclosure)

W.S. Butterfield, WESTON (w/o enclosure)

file

I:\WO\START3\1645\44478

SAMPLING TRIP REPORT

SITE NAME: Matlack Inc.

DCN: 1645-2A-AVSM

Contract Laboratory Program (CLP) Case No.: 42434

EPA I.D. NO.: NJD043584101

SAMPLING DATE: April 9 - 16, 2012

1. Site Location: Refer to Figure 1

2. Sample Locations: Refer to Figure 2

3. Sample Descriptions: Refer to Table 1

4. Laboratories Receiving Samples:

<u>Analysis</u> <u>Name and Address of Laboratory</u>

Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOC),

and Aroclors

Liberty Analytical Corporation 501 Madison Avenue

Cary, North Carolina 27513

Inorganics (including mercury and cyanide) Bonner Analytical Testing Company

2703 Oak Grove Road

Hattiesburg, Mississippi 39402

Total Organic Carbon (TOC) USEPA Region 2

and Grain Size Division of Environmental Science and

Assessment (DESA) Laboratory

2890 Woodbridge Ave. Bldg. 209, MS-230

Edison, New Jersey 08837

5. Sample Dispatch Data:

• Two sediment samples and two surface water samples for Target Compound List (TCL) VOC, SVOC, and Aroclor analysis and one aqueous sample (trip blank) for TCL VOCs were shipped to Liberty Analytical Corporation on 04/09/12 at 1900 hours via Federal Express Airbill No. 875094866672.

- Two sediment samples and two surface water samples for Target Analyte List (TAL) inorganic (including mercury and cyanide) analysis were shipped to Bonner Analytical Testing Company on 04/09/12 at 1900 hours via Federal Express Airbill No. 8750994866661.
- One sediment sample and one surface water sample for TCL VOC, SVOC, and Aroclor analysis and one aqueous sample (trip blank) for TCL VOCs were shipped to Liberty Analytical Corporation on 04/10/12 at 1600 hours via Federal Express Airbill No. 874178390158.
- One sediment sample and one surface water sample for TAL inorganic (including mercury and cyanide) analysis were shipped to Bonner Analytical Testing Company on 04/10/12 at 1600 hours via Federal Express Airbill No. 874178390147.
- Five sediment samples and five surface water samples for TCL VOC, SVOC, and Aroclor analysis, and one aqueous sample (trip blank) for TCL VOCs, were shipped to Liberty Analytical Corporation on 04/11/12 at 2030 hours via Federal Express Airbill No. 874178390170.
- Five sediment samples and five surface water samples for TAL inorganic (including mercury and cyanide) analysis were shipped to Bonner Analytical Testing Company on 04/11/12 at 2030 hours via Federal Express Airbill No. 874178390169.
- Seven sediment samples for TOC and grain size analysis were shipped to the USEPA Region 2 DESA Laboratory on 04/11/12 at 2030 hours via Federal Express Airbill No. 875094866330.
- Twelve sediment samples, 12 surface water samples, four pore water samples, and one aqueous sample (rinsate blank) for TCL VOC, SVOC, and Aroclor analysis, and one aqueous sample (trip blank) for TCL VOCs, were shipped to Liberty Analytical Corporation on 04/12/12 at 2100 hours via Federal Express Airbill No. 874178390206. Ten of the eleven coolers under Federal Express Airbill No. 874178390206 were incorrectly delivered to Bonner Analytical Testing Company. Bonner Analytical Testing Company redelivered the coolers to Liberty Analytical Corporation. No sample holding times were compromised.
- Six sediment samples, six surface water samples, two pore water samples, and one aqueous sample (rinsate blank) for TCL VOC, SVOC, and Aroclor analysis, and one aqueous sample for TCL VOCs (trip blank), were shipped to Liberty Analytical Corporation on 04/13/12 at 1900 hours via Federal Express Airbill No. 874178390191.
- Three sediment samples, three surface water samples, one pore water samples, and one aqueous sample (rinsate blank) for TCL VOC, SVOC, and Aroclor analysis, and one pore water sample and one aqueous sample (trip blank) for TCL VOCs, were shipped to Liberty Analytical Corporation on 04/16/12 at 1830 hours via Federal Express Airbill No. 874178390180.
- Twenty-one sediment samples, twenty-one surface water samples, seven pore water samples, and three aqueous (rinsate blank) samples for TAL inorganic (including mercury and cyanide) analysis were shipped to Bonner Analytical Testing Company on 04/16/12 at 1830 hours via Federal Express Airbill No. 874178390217.

- Seventeen sediment samples for TOC and grain size analysis were hand delivered to the EPA Region 2 DESA Laboratory on 04/16/12 at 1115 hours.
- Three sediment samples for TOC and grain size analysis were hand delivered to the EPA Region 2 DESA Laboratory on 04/17/12 at 1020 hours.

6. On-Site Personnel:

<u>Name</u>	<u>Company</u>	<u>Duties on Site</u>
Margaret Alferman	EPA	On-Scene Coordinator
Edmund Knyfd	WESTON	Site Project Manager, Site Health and Safety Officer, Sampler, Field Documentation, Global Positioning System (GPS) Data Collection
Michele Capriglione	WESTON	Sampler, Field Documentation, GPS Data Collection
Joel Petty	WESTON	Sample Management Officer (SMO)
Sean Hettinger	WESTON	Sampler, SMO Assistant
Joel Siegel	WESTON	Sampler, GPS Data Collection
Joseph Bundens	WESTON	Sampler
Aleksandra Mallon	WESTON	Sampler
Scott Snyder	WESTON	Sampler
Mark Conover	WESTON	Sampler

7. Sampling Activities/Methodology:

From April 9-16, 2012, WESTON personnel collected a total of 29 surface water samples (including two environmental duplicate samples), 8 pore water samples, and 29 sediment samples (including two duplicates) from the stream and seeps of Grand Sprute Run. Grand Sprute Run is a minimal stream located approximately 500 feet west-northwest of the Matlack site. Ground water from beneath the Matlack site discharges to the Grand Sprute Run via seeps located along the eastern bank of the stream. On March 28, 2012 WESTON and EPA personnel identified six seeps (designated as "Seep A" through "Seep F"). A total of 27 locations were sampled. The sample locations can be divided into two groups: stream bed sample locations from the eastern bank of Grand Sprute Run (13 locations) and seep sample locations from the seeps adjacent to Grand Sprute Run (multiple locations along each seep for a total of 14 locations). All samples were collected for VOCs, SVOCs, PCBs and metals, including mercury and cyanide, with the exception of PW-025-18-001, which was collected for VOCs only.

Surface water, sediment, and pore water (where available) samples were collected from 13 locations in Grand Sprute Run, six of which correlate to seeps. With the exception of sample location C4, all stream bed samples were collected beginning with the most downstream sample location (GSR-DST-1) moving to the most upstream sample location (GSR-BKG-2). All stream bed samples were collected from depositional environments during low tide conditions on the eastern banks of Grand Sprute Run. All stream bed samples were collected in the following order: first surface water, then pore water (where available), and lastly sediment. At all stream bed sample locations, surface water was collected directly into sample containers with the sampler standing downgradient of the sample collection activity. An attempt to collect pore water was made at each stream bed sample location; first at 6 inches below the stream bed and then at 18 inches below the stream bed. The decontaminated pore water sampling device, fitted with dedicated screening in order to facilitate sampling in muddy conditions, was advanced to six inches beneath the stream bed; the device was opened and purging attempted; if pore water was obtained, the device was purged for three volumes and the sample collected. In conjunction with the pore water samples, WESTON collected two rinsate blank samples to demonstrate that the pore water sampling device was decontaminated appropriately.

At seep locations, seep water and sediment samples were collected along transect lines heading from the stream bed to the beginning of the seep where the initial (most eastward) expression of seep water was observed. With the exception of "Seep A", where no intermediate seep location was identified, intermediate locations along transect lines within each seep were sampled. Along each seep, the samples were collected from the stream bed toward the initial expression of seep water in the following order: first surface water, then sediment. Seep water sample locations were biased toward where seep water flow was observed. All VOC fractions of seep water samples were collected directly into sample vials via flow. The remaining fractions were collected in one of two ways: 1) directly into sample containers via flow; or 2) a hole was dug using a decontaminated shovel and dedicated disposable scoop, seep water was allowed to accumulate in the hole, then the sample was collected directly into sample containers from seep water that accumulated in the hole.

All samples were collected within areas determined to be Hazard Ranking System (HRS)-eligible wetlands, according to a wetland delineation performed by WESTON on March 28-29, 2012. Upon arrival at each sample location, care was taken to ensure that the location was not disturbed. All sediment samples were collected using the same method: the VOC fraction was collected directly from the ground surface using dedicated EnCore sampling devices, then the remaining fractions were homogenized using

dedicated, disposable aluminum trays and plastic scoops. Detailed information regarding each sample collected is presented in Table 1.

WESTON logged sample locations electronically using GPS equipment. WESTON performed postprocessing differential correction of the GPS data in accordance with the EPA Region 2 GPS Standard Operating Procedures (SOPs). The processed GPS data was transferred to the Sample Location Map (Figures 2) using Geographic Information System (GIS) software.

All samples were collected as part of the Matlack Inc. work assignment. The sediment and aqueous samples collected by WESTON were designated to be analyzed for TCL VOCs, TCL SVOCs, TCL Aroclors by the Liberty Analytical Corporation laboratory and for TAL inorganics (including mercury and cyanide) by the Bonner Analytical Testing Company laboratory. In addition, the sediment samples collected by WESTON were designated to be analyzed for TOC and grain size by the EPA Region 2 DESA Laboratory. In instances where samples designated for TAL inorganic (including mercury and cyanide) and TOC and grain size analyses were held prior to shipment they were help on ice in custody sealed coolers. Traffic Reports and Airbills are presented in Attachment 1.

Michele Capriglione

Michele Capriglione 8. Report Prepared by: Date: May 2, 2012

Edmund Knyfd, CPG Date: May 2, 2012 Report Approved by: 9.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SW-001-001	GSR-DST-1	BA8D5	MBA8D5	04/09/2012	1245	The GSR-DST-1 location is the furthest downstream sample location. Surface water collected from the eastern side of Grand Sprute Run directly into sample containers.
SW-001-002	GSR-DST-1	BA8D6	MBA8D6	04/09/2012	1245	Duplicate of SW-001-001.
SD-001- 0006-001	GSR-DST-1	BA8D7	MBA8D7 04/09/2012 1340 location along the east Sprute Run. Sediment brown clay with trace		Sediment sample collected from a depositional location along the eastern bank of Grand Sprute Run. Sediment description: darkbrown clay with trace sand; abundant partially decomposed organics. Sediment sample depth: 0-6 inches.	
SD-001- 0006-002	GSR-DST-1	BA8D8	MBA8D8	04/09/2012	1340	Duplicate of SD-001-006-002.
SW-002-001	GSR-DST-2	BA8E0	MBA8E0	04/10/2012	1030	The GSR-DST-2 location is approximately 250 feet upstream of the furthest downstream sample location (GSR-DST-1). Surface water collected from the eastern side of Grand Sprute Run directly into sample containers. Matrix Spike/Matrix Spike Duplicate (MS/MSD) collected for Quality Assurance Quality Control (QA/QC) purposes.
SD-002- 0006-001	GSR-DST-2	BA8E9	MBA8E9	04/10/2012	1100	Sediment sample collected from depositional location along the eastern bank of Grand Sprute Run. Sediment description: darkbrown clay with trace sand; abundant partially decomposed organics. Sediment sample depth: 0-6 inches. MS/MSD collected for QA/QC purposes.
SW-003-001	GSR-DST-3	BA8E1	MBA8E1	04/11/2012	1100	The GSR-DST-3 location is approximately 250 feet upstream of the GSR-DST-2 location. Surface water collected from the eastern side of Grand Sprute Run directly into sample containers.
SD-003- 0006-001	GSR-DST-3	BA8F1	MBA8F1	04/11/2012	1115	Sediment sample collected from a depositional location created by rivulets feeding the eastern side of Grand Sprute Run. Sediment description: dark-brown clay and silt with trace sand; abundant partially decomposed organics. Sediment sample depth: 0-6 inches.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SW-004-001	F5	BA8E8	MBA8E8	04/11/2012	1150	The F5 location is in Grand Sprute Run on the eastern bank directly in line with the "Seep F". Surface water collected from the eastern side of Grand Sprute Run directly into sample containers.
SD-004- 0006-001	F5	BA8F2	MBA8F2	04/11/2012	1220	Sediment sample collected from a depositional location approximately 10 feet downstream of rivulets feeding the eastern side of Grand Sprute Run. Sediment description: gray and brown organic clay and sand. Sediment sample depth: 0-6 inches.
SW-005-001	F4	BA8E2	MBA8E2	04/11/2012	1440	The F4 location is in a wet along "Seep F" where a slow but consistent flow was observed. Surface water collected directly into sample containers.
SD-005- 0006-001	F4	BA8F3	MBA8F3	04/11/2012	1450	Sediment sample collected from a depositional location where sand was observed to be deposited on seep bed surface. Sediment description: dark brown clay and sand; abundant decomposed organics. Sediment sample depth: 0-6 inches.
SW-006-001	F3	BA8E3	MBA8E3	04/11/2012	1525	The F3 location is the mid-point of the wet area defined as "Seep F"; however, just upgradient (east) of the F3 location the ground surface was dry. The slight flow of seep water was observed at this location. Surface water collected directly into sample containers, which were dug into the downgradient portion of the seep in order to facilitate seep water flow.
SD-006- 0006-001	F3	BA8F4	MBA8F4	04/11/2012	1625	Sediment sample collected from a saturated location. Sediment description: dark brown fine sand, silt and clay; some organics. Sediment sample depth: 0-6 inches.
SW-007-001	F2	BA8E4	MBA8E4	04/11/2012	1800	The F2 location is in a wet but flat area along "Seep F". A small weir-like dam was fashioned out of a dedicated, disposable aluminum pan from which clear seep water trickled over. VOCs and PCBs were collected utilizing the weir-like dam. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. SVOCs and inorganics including mercury and cyanide were collected by filling sample containers with seep water that accumulated in the hole.

I:\WO\START3\1230\43111

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SD-007- 0006-001	F2	BA8F5	MBA8F5	04/11/2012	1745	Sediment sample collected from a saturated location. Sediment description: dark brown fine sand, silt and clay; some organics. Sediment sample depth: 0-6 inches.
SW-008-001	F1	BA8E5	MBA8E5	04/12/2012	0900	The F1 location is the first (most eastward) expression of seep water in "Seep F". VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-008- 0006-001	F1	BA8F6	MBA8F6	04/12/2012	1000	Sediment sample collected from a saturated location. Sediment description: dark-brown fine sand, silt and clay; some organics. Sediment sample depth: 0-4 inches.
SW-009-001	C4	BA8E6	MBA8E6	04/12/2012	0905	The C4 location is in Grand Sprute Run, 3 feet downstream of where "Seep C" water flows into Grand Sprute Run; area appears depositional (mounded sediment). Surface water collected from the eastern side of Grand Sprute Run directly into sample containers.
PW-009-06- 001	C4	BA8E7	MBA8E7	04/12/2012	0930	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from 6 inches below the stream bed.
SD-009- 0006-001	C4	BA8F7	MBA8F7	04/12/2012	1005	Sediment sample collected from depositional area on eastern bank of grand Sprute Run. Sediment description: dark-brown clayey sand, partially decomposed organics. Sediment sample depth: 0-6 inches.
SW-010-001	E3	BA8F9	MBA8F9	04/12/2012	1120	The E3 location is in Grand Sprute Run just downgradient of where seep water from "Seep E" enters Grand Sprute Run. Surface water flow readily observed; sample collected directly into sample containers.
PW-010-06- 001	E3	BA8G0	MBA8G0	04/12/2012	1125	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from 6 inches below center of stream bed.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
PW-010-18- 001	E3	BA8G1	MBA8G1	04/12/2012	1155	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging for more than three volumes of the sampling device. Pore water sample collected from 18 inches below center of stream bed using pore water sampling device.
SD-010- 0006-001	E3	BA8G2	MBA8G2	04/12/2012	1220	Sediment sample collected from depositional location where seep water enters Grand Sprute Run. Sediment description: dark-brown clayey sand and partially decomposed organic matter; sediment sample depth: 0-4 inches.
SW-011-001	С3	BA8G3	MBA8G3	04/12/2012	1155	The C3 location is slightly upgradient of the C4 location. Seep water was readily flowing at this location. VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-011- 0006-001	C3	BA8G4	MBA8G4	04/12/2012	1220	Sediment sample collected from a depositional location. Sediment description: brown to black fine to coarse sand, little rounded pebbles, trace organic matter; sediment sample depth: 0-6 inches.
SW-012-001	C2	BA8G5	MBA8G5	04/12/2012	1235	The C2 location is the intermediate point of "Seep C". VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-012- 0006-001	C2	BA8G6	MBA8G6	04/12/2012	1255	Sediment sample collected from a depositional location. Sediment description: light brown to brown fine to coarse sand, some rounded gravel, trace organic matter; sediment sample depth: 3-6 inches.
SW-013-001	E2	BA8G7	MBA8G7	04/12/2012	1240	The E2 location is on the southern side of "Seep E". Surface water sample collected from location where seep water surface flow was observed within saturated mucky area. Sample collected directly into sample containers.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SD-013- 0006-001	E2	BA8G8	MBA8G8	04/12/2012	1300	Sediment sample collected from depositional location wet with seep water and partially decomposed organic materials. Sediment description: dark brown and gray clayey sand; sediment sample depth: 0-5 inches.
SW-014-001	E1	BA8H4	MBA8H4	04/12/2012	1440	The E1 location is the first (most eastward) expression of seep water within "Seep E". VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-014- 0006-001	E1	BA8G9	MBA8G9	04/12/2012	1500	Sediment sample collected from depositional location saturated with seep water. Sediment description: brown to dark-brown sand with pebbles, some silt, trace clay; sediment sample depth: 0-6 inches.
SW-015-001	C1	BA8H5	MBA8H5	04/12/2012	1610	The C1 location is the first (most south eastward) expression of seep water within "Seep C". VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-015- 0006-001	C1	ВА8Н0	МВА8Н0	04/12/2012	1630	Sediment sample collected from a depositional location. Sediment description: tan, light-brown to brown fine to coarse sand, some pebbles, little clay, little silt; sediment sample depth: 0-6 inches.
SW-016-001	D3	ВА8Н6	МВА8Н6	04/12/2012	1450	The D3 location is in a depositional area of Grand Sprute Run where water from "Seep D" flows in to Grand Sprute Run. Surface water collected directly into sample containers.
SD-016- 0006-001	D3	BA8H1	МВА8Н1	04/12/2012	1455	Sediment sample collected from a depositional location. Sediment description: gray slightly sandy silt; abundant organic material; trace sand; sediment sample depth: 0-4 inches.
SW-017-001	D2	ВА8Н7	МВА8Н7	04/12/2012	1545	The D2 location is along the southern mid- point of "Seep D". Surface water collected directly into sample containers.
SD-017- 0006-001	D2	ВА8Н2	МВА8Н2	04/12/2012	1555	Sediment sample collected from a depositional location. Sediment description: dark brown medium grained sand and some fine gravel; sediment sample depth: 0-4 inches.

I:\WO\START3\1230\43111

CAMPA		OPG LYYC	NIODG INV			
SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SW-018-001	DI	ВА8Н8	MBA8H8	04/12/2012	1630	The D1 location is the first (most northeastward) expression of seep water in "Seep D". Very slow surficial flow of seep water observed at this location. Surface water collected directly into sample containers, which were pressed into the downgradient portion of the seep in order to facilitate seep water flow.
SD-018- 0006-001	D1	ВА8Н3	МВА8Н3	04/12/2012	1640	Sediment description: medium brown sand abundant organic matter; sediment sample depth: 0-5 inches.
SW-019-001	GSR-MID	BA8J0	MBA8J0	04/12/2012	1730	The GSR-MID location is along the eastern bank of Grand Sprute Run where an unnamed seep flows into Grand Sprute Run. Surface water collected directly in to sample containers.
PW-019-06- 001	GSR-MID	BA8J1	MBA8J1	04/12/2012	1740	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from 6 inches below stream bed.
SD-019- 0006-001	GSR-MID	ВА8Н9	МВА8Н9	04/12/2012	1750	Sediment sample collected from a depositional location. Sediment description: orange brown sand and gray silty organic mud; sediment sample depth: 0-6 inches.
SW-020-001	В3	BA8J3	MBA8J3	04/13/2012	0830	The B3 location is in Grand Sprute Run where seep water from "Seep B" enters Grand Sprute Run. Surface water collected from eastern bank of Grand Sprute Run directly into sample containers. MS/MSD collected for QA/QC purposes.
PW-020-06- 001	В3	BA8J4	MBA8J4	04/13/2012	0850	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from six inches below the center of the stream bed.
SD-020- 0006-001	В3	BA8J2	MBA8J2	04/13/2012	0930	Sediment sample collected from depositional location. Sediment description: gray silty sandy muck, abundant organics; sediment sample depth: 0-6 inches. MS/MSD collected for QA/QC purposes.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SW-021-001	A2	BA8J7	MBA8J7	04/13/2012	1020	The A2 location is in Grand Sprute Run approximately 300 feet south of Route 322; this location chosen to represent background (most upstream) conditions associated with a seep. Surface water was collected from eastern bank of Grand Sprute Run directly into sample containers.
SW-021-002	A2	BA8J8	MBA8J8	04/13/2012	1020	Duplicate of SW-021-001.
PW-021-06- 001	A2	BA8J9	MBA8J9	04/13/2012	1045	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from 6 inches below the stream bed.
SD-021- 0006-001	A2	BA8K0	MBA8K0	04/13/2012	1120	Sediment sample collected from depositional environment (mounded sediment) along the eastern side of the stream bank. Sediment description: tan medium sand, some coarse sand with pebbles; sediment sample depth 0-4 inches.
SD-021- 0006-002	A2	BA8K1	MBA8K1	04/13/2012	1120	Duplicate of SD-021-006-002.
SW-022-001	B2	BA8K3	MBA8K3	04/13/2012	1050	The B2 location is an intermediate point of "Seep B". Flowing water was observed at this location. VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-022- 0006-001	B2	BA8K2	MBA8K2	04/13/2012	1120	Sediment description: Brown and light-brown clay, some fine to coarse sand, little rounded pebbles, trace organic matter; sediment sample depth: 0-6 inches.
SW-023-001	B1	BA8K4	MBA8K4	04/13/2012	1420	The B1 location is the first expression of seep water at "Seep B". Flowing water was observed at this location. VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SD-023- 0006-001	B1	BA8K5	MBA8K5	04/13/2012	1440	Sediment description: Brown and light-brown fine to coarse sand, some rounded pebbles, little organic matter; sediment sample depth: 0-6 inches.
SW-024-001	A1	BA8K7	MBA8K7	04/13/2012	1415	The A1 location is the first expression of seep water at "Seep A". Very slight flowing water was observed at this location. VOCs collected directly into sample vials. A hole was dug into the seep using a decontaminated shovel and dedicated scoop. All other parameters were collected by filling sample containers with seep water that accumulated in the hole.
SD-024- 0006-001	A1	BA8K6	MBA8K6	04/13/2012	1430	Sediment description: gray silty mud, some sand with abundant decomposed organics; sediment sample depth: 3-6 inches.
SW-025-001	GSR-MID-2	BA8K9	MBA8K9	04/16/2012	1020	The GRS-MID-2 location is along eastern side of Grand Sprute Run where oxygen reducing conditions were observed (red/orange stained sediment and surface water observed). Surface water collected directly into sample containers.
PW-025-06- 001	GSR-MID-2	BA8L0	MBA8L0	04/16/2012	1045	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging more than three volumes of the sampling device. Pore water sample collected from 6 inches below the stream bed.
PW-025-18- 001	GSR-MID-2	BA8L1	MBA8L1	04/16/2012	1120	Pore water sample collected using dedicated tubing and a decontaminated pore water sampling device after purging for over three volumes of the sampling device. Pore water sample collected from 18 inches below the stream bed for VOCs only.
SD-025- 0006-001	GSR-MID-2	BA8K8	MBA8K8	04/16/2012	1130	Sediment description: gray brown organic muck, roots, leaves, some silt and clay; sediment sample depth 0-6 inches.
SW-026-001	GSR-BKG-1	BA8L6	MBA8L6	04/16/2012	1325	The GSR-BKG-1 location is approximately 200 feet north of Route 322. This location was chosen to represent background conditions of Grand Sprute Run. Mild flow observed at this location. Surface water collected from eastern bank of Grand Sprute Run directly into sample containers.

SAMPLE NUMBER	LOCATION	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SD-026- 0006-001	GSR-BKG-1	BA8L4	MBA8L4	04/16/2012	1340	Sediment sample collected from depositional environment along the eastern side of the stream bank. Sediment description: gray/brown organic muck, some silt and clay; sediment sample depth 0-6 inches.
SW-027-001	GSR-BKG-2	BA8L7	MBA8L7	04/16/2012	1410	The GSR-BKG-2 location is approximately 300 feet north of Route 322. This location was chosen to represent background conditions of Grand Sprute Run. Mild flow observed at this location. Surface water collected from eastern bank of Grand Sprute Run directly into sample containers.
SD-027- 0006-001	GSR-BKG-2	BA8L5	MBA8L5	04/16/2012	1425	Sediment sample collected from depositional environment along the eastern side of the stream bank. Sediment description: gray/brown organic muck, some silt and clay; sediment sample depth 0-6 inches.
TB-040912	Trip Blank	BA8D4	NA	04/09/2012	1230	Trip blank sample collected for QA/QC; day one.
TB-041012	Trip Blank	BA8D9	NA	04/10/2012	0830	Trip blank sample collected for QA/QC; day two.
TB-041112	Trip Blank	BA8F0	NA	04/11/2012	1100	Trip blank sample collected for QA/QC; day three.
TB-041212	Trip Blank	BA8F8	NA	04/12/2012	1100	Trip blank sample collected for QA/QC; day four.
TB-041312	Trip Blank	BA8J5	NA	04/13/2012	0945	Trip blank sample collected for QA/QC; day five.
TB-041612	Trip Blank	BA8L2	NA	04/16/2012	1100	Trip blank sample collected for QA/QC; day six.
RB-041212	Rinsate Blank	BA8D3	MBA8D3	04/12/2012	1430	Rinsate Blank (decontaminated pore water sampler).
RB-041312	Rinsate Blank	BA8J6	MBA8J6	04/13/2012	1115	Rinsate Blank (decontaminated pore water sampler).
RB-041612	Rinsate Blank	BA8L3	MBA8L3	04/16/2012	1145	Rinsate Blank (decontaminated pore water sampler).

FIGURE 1 SITE LOCATION MAP

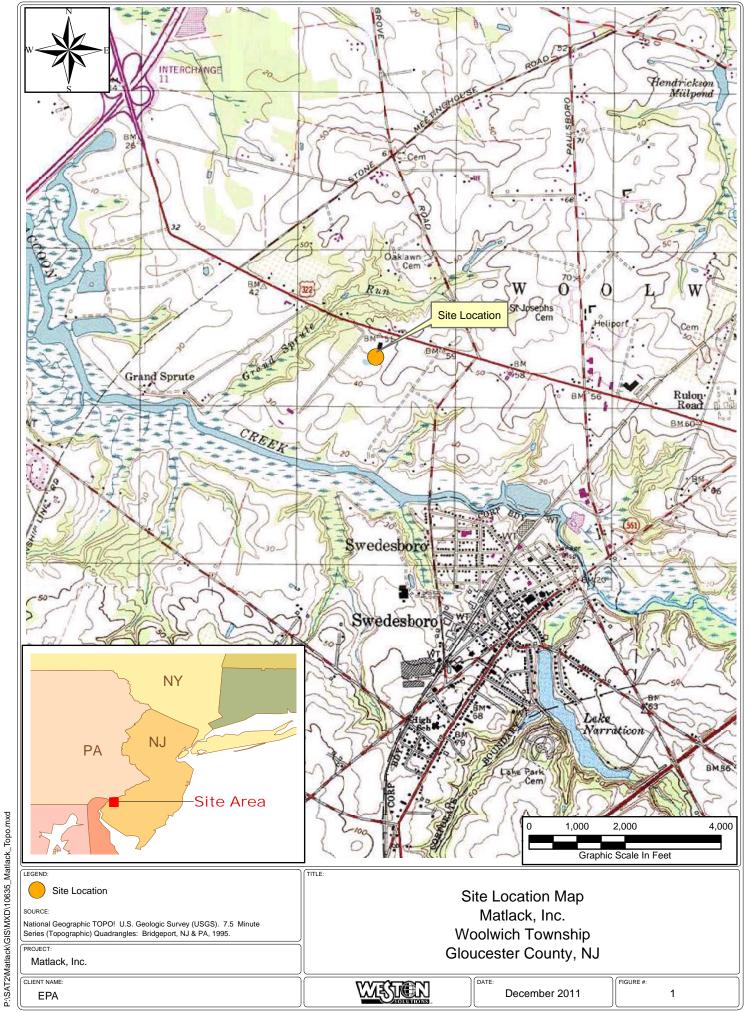
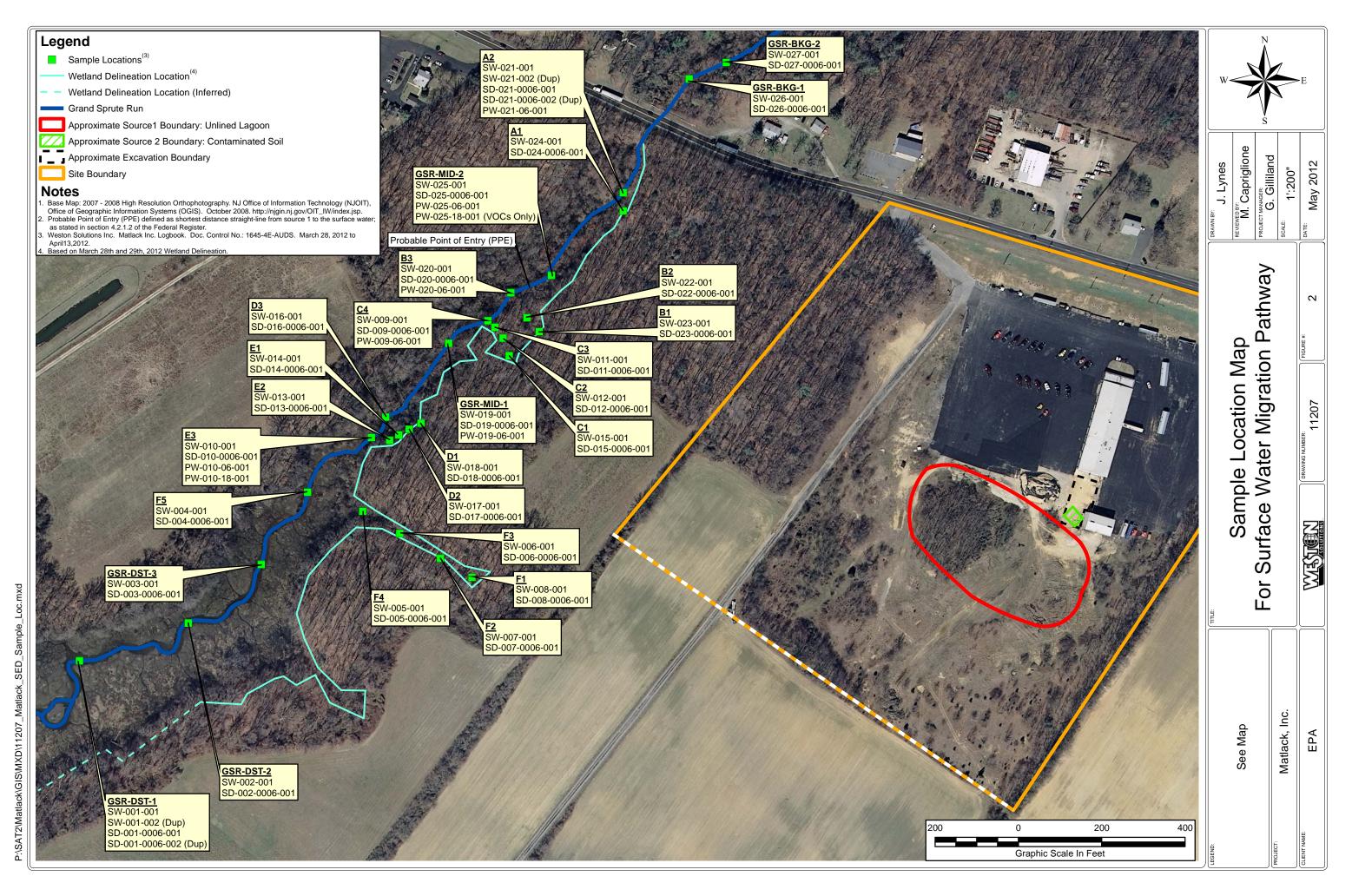


FIGURE 2 SAMPLE LOCATION MAP



ATTACHMENT 1 TRAFFIC REPORTS/CHAIN OF CUSTODY RECORDS AND AIRBILLS

Page 1 of 2

USEPA

DateShipped: 4/8/2012 CarrierName: FedEx AirbillNo: 875094866672 CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-040912-162547-0002

Cooler #: 2 Lab: Liberty Analytical Corporation

Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix .	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/MS D
0	BASD4	TB-040912	Trip Blank	1005	CLP TCL Volatiles	Delonized Water	4/9/2012	12:30	3	40 ml VOA	HCI pH<2	N
	BA8D5	SW-001-001	GSR-DST-1	1008	CLP TCL Volatiles	Surface Water	4/9/2012	12:45	3	40 mi VOA	HCI pH<2	N
	BA8D5	SW-001-001	GSR-DST-1	1009	CLP TCL Semivolatiles	Surface Water	4/9/2012	12:45	2	1 liter amber	4 C	N
	BASD5	SW-001-001	GSR-DST-1	1010	CLP TCL Aroclors	Surface Water	4/9/2012	12:45	2	1 liter amber	4C	N
	BA8D6	SW-001-002	GSR-DST-1	1013	CLP TCL Volatiles	Surface Water	4/9/2012	12:45	3	40 ml VOA	HCI pH<2	N
	BA8D6	SW-001-002	GSR-DST-1	1014	CLP TCL Semivolatiles	Surface Water	4/9/2012	12:45	2	1 liter amber	4 C	N
	BASD6	SW-001-002	GSR-DST-1	1015	CLP TCL Arodors	Surface Water	4/9/2012	12:45	2	1 liter amber	4 C	N
	BA8D7	SD-001-0006- 001	GSR-DST-1	1017	CLP TCL Semivolatiles	Sediment	4/9/2012	13:40	1	8 oz Glass Jar	4 C	N
	BA8D7	SD-001-0006- 001	GSR-DST-1	1018	CLP TCL Aroclors	Sediment	4/9/2012	13:40	1	8 oz Glass Jar	4 C	N
	BA8D7	SD-001-0006- 001	GSR-DST-1	1019	CLP TCL Volatiles	Sediment	4/9/2012	13:40	3	Encore	4 C	N
	BA8D7	SD-001-0006- 001	GSR-DST-1	1027	Percent Moisture	Sediment	4/9/2012	13:40	. 1	4 oz Glass Jar	4 C	N

Special Instructions: CHAIN OF CUSTODY #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all analyses	Jullety	4/9/12	Fed Ex	4/9/12	1900						
			,								
			·			TA.					

Page 2 of 2

USEPA

DateShipped: 4/9/2012 CarrierName: FedEx AirbillNo: 875094866672

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-040912-162547-0002

Cooler #: 2

Lab: Liberty Analytical Corporation

Case #: 42434

Lab#	CLP Sample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8D8	SD-001-0006- 002	GSR-DST-1	1023	CLP TCL Semivolatiles	Sediment	4/9/2012	13:40	1	8 oz Glaes Jar	4 C	N
	BA8D8	SD-001-0006- 002	GSR-DST-1	1024	CLP TCL Aroclors	Sediment	4/9/2012	13:40	. 1	8 oz Glass Jar	4 C	N
	BA8D8	SD-001-0006- 002	GSR-DST-1	1025	CLP TCL Volatiles	Sediment	4/9/2012	13:40	3	Encore	4 C	N
	BA8D8	SD-001-0006- 002	GSR-DST-1	1026	Percent Molsture	Sediment	4/9/2012	13:40	1	4 oz Glass Jar	4 C	N
											-	
									+		1	
					1 4		-		1	1		
				19								
			1					<u> L.</u>				
÷	110	The										
	11/12	4										
1 4			,									
7					i i			34				

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by		Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples all analyses	Jullety	4/9/12	Fed Ex	4/9/12	1900						
										8	
									A.		
171				1.							, i

Page 1 of 1

USEPA

DateShipped: 4/9/2012 CarrierName: FedEx AirbillNo: 87509486661

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-040912-160136-0001

Cooler #: 1

Lab: Bonner Analytical Testing Company Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8D5	SW-001-001	GSR-DST-1	1006	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/9/2012	12:45	1	1 L poly	HNO3 pH<2	N
	MBA8D5	SW-001-001	GSR-DST-1	1007	CLP Cyanide	Surface Water	4/8/2012	12:45	1	1 L poly	NaOH pH>12	N
	MBA8D6	SW-001-002	GSR-DST-1	1011	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/9/2012	12:45	1	1 L poly	HNO3 pH<2	N
/	MBA8D6	SW-001-002	GSR-DST-1	1012	CLP Cyanide	Surface Water	4/9/2012	12:45	1	1 L poly	NaOH pH>12	N
	MBASD7	SD-001-0006- 001	GSR-DST-1	1016	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/9/2012	13:40	1	8 oz Glass Jar	4 C	N
	MBA8D8	SD-001-0006- 002	GSR-DST-1	1022	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/9/2012	13:40	1	8 oz Glass Jar	4 C	N
												-
					· · · · · · · · · · · · · · · · · · ·							
	1	the		- 1	l .	1	1	1	}	l	1	1

		SAMPLES TRANSFERRED FROM
Special Instructions:		CHAIN OF CUSTODY #
		,

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all analyses	JulPetty	4/9/12	Foller	4/9/12	1900				-		

Fedex. US Airbill Francis 8750 9486 6661	Sender's Copy
Date 4/9/13. Sender's FedEx Account Number 4/9/13. Sender's FedEx Account Number 4/9/13.	4a Express Package Service **In must becalisms. FedEx Priority Overright FedEx Standard Overri
Sender's Joe Petry Phone 1732 1570-4943	FedEx Express Saver School humbres day. "Thursday of the discharge day o
company Weston Solutions, Inc	4b Express Freight Service - Volunt locations. Packages over 150 lbs.
Address 1090 King Georges Past Rd Suite 201	About business days, "Profess subgrowers well to delevered on Abouting was SATURGAY Feditor (Doughtwight Booking No. Orderwy to address." December 1971
cin/Edison state NJ ZP08837	Second business day. The party of bigness and be delivered on Montally unless \$10,000 Delivery to entertaid. Field Ex 30 ay Freight. Third business day. "Scharday Delivery NOT evokable. Packaging *Declared value (Ent) \$200.
Your Internal Billing Reference 2040 - 135-0245 TS 133	FedEx FedEx Pake Incident FedEx Small Pakent Box Tube
Recipient's Chris Bonner Phone (601) 264-2854	Special Handling and Delivery Signature Options SATURDAY Delivery NOT mediate furnish, findix Expans Save, or Fedix 30ay Fraight.
company Bonner Analytical Testing Company	No Signature Required Pockage any to left-visitors Sommon of first plants because you and the state of the st
Address 2703 Oak Grave Road HOLD Weekday Food on address Control of the Control	See box arest he checked.
Address Addres	No List standard Disposit Declaration Surjective List Disposit Declaration Disposit Declaration Surjective List Declar
on Mattiesburg som MS 21939402	7 Paryment Bill to: Sender Act the baction Recipient Third Perty Credit Card Caety Check
	Note the Balancian Recipient Third Perty Credit Card Cesh/Check
Sino on the go avinoute (edescent)	**Cour flackbilly is familiand to \$1,000 confinences (our officiene a highest values. Does back for details, By unding this Arbitill you appeal to the services confidence on this back, if the Arbitill send is the content fraction of the Arbitill send in the content fraction.
Tangar is allower some Companies well with state of viceous con-	agree for the service occurdations on this beach of this Artifal and in the content Fractic Service Guide, including terms This first for the fallow. Rev. Data 2/10- Part #155281 - G01894-2010 FedDe - PRINTED BN U.S.A. SHY
FedEx. US Airbill 8750 9486 6672	, (A NEW EXECUTION Sender's Copy
	Sender's Copy 4a Express Peckage Service *To mentionalism. Packages up to 199 Dis.
Express Number 0 7 3 0 1 7 0 0 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Sender's Copy 4a Express Package Service ** To most locations. Fedity Priority Overnight Near business sorting ** Inflation to the business of mandard of the purpose of the service of
Express From Please print and press hand. Date 4/9/12 Sender's FedEx Account Number 40035 60 FTO COUNT NUMBER ONLY Sender's Table 4	Sender's Copy 4a Express Package Service * To mount houseasm. Fed Ex Priority Overnight Near business sorting * Friday Sharday Delivery NOT wealthin. Fed Ex Stundard Overnight Near business sorting * Friday Sharday Delivery NOT wealthin. Fed Ex Stundard Overnight Sharday Delivery NOT wealthin. Fed Ex Express Sever That business form the delivery to select houseasm. Fed Ex Express Sever That business for the selection of the several seve
From Please prist and press hand. Date 4/9/12 Sender's FedEx Account Number 40035 FEDE 20 CT9 UNIT NUMBER ONLY Sender's Joe! Petry Phone (732) 570-4943	Sender's Copy 4a Express Peckage Service *To meet locations. Fadix Priority Overnight Heat business priority Flores Structure Flores Structure
From Please prist and press hand. Date 4/9/12 Sender's FedEx Account Number 40055550570 CD3 URT NUMBER ONLY Sender's Joe Petry Phone (732)570-4943 Company Weston Solutions, Inc.	Sender's Copy 4a Express Package Service **To meet locations. *
Express From Please printend press band. Date 4/9/12 Sender's FedEx Account Number 40035 Federal Count Number 0 NLY Sender's Joe Petry Phone (732)570-4943 Company Weston Solutions, Inc. Address 090 King Georges Past Rd Suite 201 Dept. Roor Salutions City Edison State M5 ZIP 08837 Your Internal Billing Reference 20401-135-1000 May -5233	Sender's Copy 4a Express Package Service **To meet locations. *
Express From Please prist and press hard. Sander's FedEx Account Number Pop 535 Express Cogning Number only	Sender's Copy 4a Express Peckage Service *To meet locations. Fadix Priority Overnight Heat business are five flows substantially to either of the substant Fedix 20 ay Fedix Express Sever The business service or Manufacy substantially business AULERAY flows of the business service or flows and the substantial service or flows of the substantial service or flows or flows or flows of the substantial service or flows o
From Please prist and press hard. Date 4/9/12 Sender's FedEx Account Number 40055550500000 CB3 UNT NUMBER ONLY Sender's Joe Petry Phone (732)570-4943 Company Weston Solutions, Inc. Address 1090 King Georges Post Rd Suite 201 Day, FloorSubshood City Edison State Not IP 08837 Your Internal Billing Reference 20401-135-10004-5233 To Recipient's Bob Meierer Phone (919) 379-4100 Company Liberty Analytical Corporation	Sender's Copy 4a Express Peckage Service *To meet locations. Fadix Priority Overnight Heat business are five flows substantially to either of the substant Fedix 20 ay Fedix Express Sever The business service or Manufacy substantially business AULERAY flows of the business service or flows and the substantial service or flows of the substantial service or flows or flows or flows of the substantial service or flows o
Express From Please prist and press hard. Sander's FedEx Account Number 40955560 = 1000 10	Sender's Copy 4a Express Peckage Service *To meet locations. *Folder Priority Overnight Head bushess soring* Friedry School bushess and Friedry School bushess and friedry Indicated
From Please print and press hard. Data 4/9/12 Sender's FedEx Account Number 40055560 processor Number 0 NLY Sender's Joel Petry Phone (732) 570-4943 Company Weston Solutions, Inc. Address 1090 King Georges Post Rd Suite 20/ Dept Ploor Schipflood City Edison State NJ ZIP 08837 2 Your Internal Billing Reference First of transcass will appare in Broken. 3 To Recipient's Bob Meierer Phone (919) 379-4100 Company Liberty Analytical Corporation HOLD Weekding Processor of Process	Sender's Copy 4a Express Peckage Service *To meet locations. Fedix Priority Overright Heat business and the subsect of history
From Please prist and press hard. Data 4/9/12 Sender's FedEx Account Number 4005556050 CB3 UNT NUMBER ONLY Sender's Joe Petry Phone (732)570-4943 Company Weston Solutions, Inc. Address 090 King Georges Post Rd Suite 201 Day, FloorSchipfhood City Edison State M5 ZIP 08837 2 Your Internal Billing Reference 20401-135-6004-5233 To Recipient's Bob Mejerer Phone (919)379-4100 Company Liberty Analytical Corporation Manna Bob Mejerer Phone (919)379-4100 Company Liberty Analytical Corporation Manna Bob Mejerer Pla boose or PD. ZIP codes. Address 501 Madis on Ave Dept. FloorSchipfhood Manna Bob Mejerer Pla boose or PD. ZIP codes. Address Follows and Pla boose or PD. ZIP codes. Address Place Recipient's Pla boose or PD. ZIP codes. Address Follows and Place P	Sender's Copy 4a Express Peckage Service *To meet locations. Fodic Priority Overnight Heat bushess and Priority in telectral.
From Please print and press hard. Data 4/9/12. Sander's FadEx Account Number 4 00 35 80 20 CD UNT NUMBER ONLY Sender's Joe Petry Phone (732) 570-4943. Company Weston Solutions, Inc. Address 090 King Georges Past Rd Suite 20 Dept. From State MJ 21 C8837 Your Internal Billing Reference 2040 1 135-60 9 Mg - 5233 To Recipient's Bob Mejerer Phone (919) 379-4100 Company Liberty Analytical Corporation of your shipping address. Dept. From State HOLD backton address or for construction of your shipping address.	Sender's Copy 4a Express Package Service Fedex Standard Overnight Fedex Standard Fedex Standard Fedex Standard Fedex Standard Fedex Standard
From Please print and press hard. Data 4/9/12. Sander's FadEx Account Number 4 00 35 80 20 CD UNT NUMBER ONLY Sender's Joe Petry Phone (732) 570-4943. Company Weston Solutions, Inc. Address 090 King Georges Past Rd Suite 20 Dept. From State MJ 21 C8837 Your Internal Billing Reference 2040 1 135-60 9 Mg - 5233 To Recipient's Bob Mejerer Phone (919) 379-4100 Company Liberty Analytical Corporation of your shipping address. Dept. From State HOLD backton address or for construction of your shipping address.	Sender's Copy 4a Express Peckage Service **To mast location.** **Peckages up to 158 lbs.** Fedit X Priority Overnight Fedit X Standard Overnight Fedit X Standard Descript Fedit X Standard

New Date 2/10 - Part #156281 - ©1994-2018 FagEx - PRINTED IN U.S.A. SRY

USEPA

DateShipped: 4/10/2012 CarrierName: FedEx AirbillNo: 874178390158

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041012-142316-0004

Cooler #: 2

Leb: Liberty Analytical Corporation

Lab#	CLP 8ample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8D9	TB-041012	Trip Blank	1028	CLP TCL Volatiles	Delonized Water	4/10/2012	08:30	3	40 ml VOA	HCI pH<2	N
	BA8E0	SW-002-001	GSR-DST-2	1031	CLP TCL Volatiles	Surface Water	4/10/2012	10:30	3	40 ml VOA	HCI pH<2	N
	BA8E0	SW-002-001	GSR-DST-2	1032	CLP TCL Semivolatiles	Surface Water	4/10/2012	10:30	2	1 liter amber	4 C	N
	BASEO	SW-002-001	GSR-DST-2	1033	CLP TCL Arodore	Surface Water	4/10/2012	10:30	6	1 liter amber	4C	Y
	BA8E9	SD-002-0006- 001	GSR-DST-2	1075	CLP TCL Semivolatiles	Sediment	4/10/2012	11:00	1	8 oz Glass Jar	4C	N
	BA8E9	SD-002-0006- 001	GSR-DST-2	1076	CLP TCL Aroclors	Sediment	4/10/2012	11:00	2	8 oz Glass Jar	4C	Y
	BA8E9	SD-002-0006- 001	GSR-DST-2	1077	CLP TCL Volatiles	Sediment	4/10/2012	11:00	3	Encore	4 C	N
	BASE9	SD-002-0008- 001	GSR-DST-2	1080	Percent Moisture	Sediment	4/10/2012	11:00	₹ 1	4 oz Glass Jar	4 C	N
	-								-	A BANK NO. IN		
									197	14 (15 %)		
			1						7	3.3030	2.12	1
1	100	the							1			1
11	WI L	7								7		1

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #
	· · · · · · · · · · · · · · · · · · ·

Items/Reason	Retinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jul Petry	4/10/12	Fed Ex	4/10/12	1600		,			4.4000	
										1-400	

USEPA

DateShipped: 4/10/2012 CarrierName: FedEx AirbillNo: 874178390147

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041012-141415-0003

Cooler #: 1

Lab: Bonner Analytical Testing Company

Lab#	CLP 8ample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBASEO	SW-002-001	GSR-DST-2	1029	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/10/2012	10:30	3	1 L poly	HNO3 pH<2	Y
	MBA8E0	SW-002-001	GSR-DST-2	1030	CLP Cyanide	Surface Water	4/10/2012	10:30	3	1 L poly	NaOH pH>12	Υ.
	MBA8E9	SD-002-0006- 001	GSR-DST-2	1074	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/10/2012	11:00	2	8 oz Glass Jar	4 C	Y
t												>
· · · · · · · · · · · · · · · · · · ·			<u> </u>								<u> </u>	
		11111										
/		My										
f	and the same of th		1			-						

			No.	SAMPLES TRANSFERRED FROM
Special Instructions:		¥		CHAIN OF CUSTODY #
*				3

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Just Petty	4/10/12	Fedler	4/10/12	1600						
	, ,					4					

FecEx. US Airbill 8741 7839 0158	Sender's Copy
1 From Please print and press bard. Sender's FedEx Account Number LIPBUTGS 3 550 EX PROTONY NUMBER ONLY	4a Express Package Service *To sent locations. FedEx Priority Overnight FedEx Standard Overnight Inch backses provings Federal or Standard Overnight Inch backses provings Federal or Standard Overnight Inch backses standard Overnight
Sender's Joel Petty Phone 1732 1570-4943	FedEx ZD my Second brashwas days "Thereadory approximate will be defined on informatory orises SAURIDAN University is selected. Fed Ex Express Saver Third Suciness days." Saturdary Delivery NOT evaluable.
company Weston Solutions, Inc.	4b Express Freight Service "Tomostocotom. Packages over 150 lbs.
Address 1090 King Georges Post Raind Suite 201	Next humans days "Friday enthroses will be delevered on Monthly related to the Company on Monthly or Bread No. Delevery is selected. Condition of Description of Monthly or Monthly of Monthly of Monthly of Monthly of Mon
Cay Edison State NJ ZP 08837	FedEx 2D by Freight Second business ofer," Thursday chipments will be delibered on Mentally used Deliberary in selected. FedEx 3D by Freight Told business day," Standby Deliberary NOT wellable. Packaging "Declared value Reit 5000.
2 Your Internal Billing Reference 2040 1 - 1350 Patron 24 -	FedEx Pak* Envelope* FedEx Pak* FedEx Pak Description FedEx Large Fed.
Recipients Bob Meierer Phone 919 1379-4100	6 Special Handling and Delivery Signature Options SATURDAY Delivery HOT available for Fadia: Standard Overright, Fedia: Express Series, or Fedia: Stary Freight.
company-iberty Analytical Corporation	No Signature Required Package may be left visitout obtaining a signature brokering a sig
Address 501 Mgdisan Ave HOLD Weskday Felia tocation address ROWER, NOT contable for Children Street Felia Ford Overaging.	Does this shipment coulain dangerous goods?
We cannot stall write 19.0. boxes or P.O. ZIP codes. Dept/Rockscatte/Boxes HOLD Saturday Feder boxes and others ROLLING Address and others ROLLING Address and others. ROLLING Address and other ROLLING ADDRESS ADDRESS AND ADDRESS	No Support Declaration Declaration Declaration Declaration Dry Ice Dry
Use the line for the HOLD location eldines or for custinession of your abhyding address. City Cary State NC ZIP 27513	7 Payment Bill to:
	Sonder Section Recipient Third Party Credit Card Cash/Check ReditAct No. 1 mill behind. 102376103 504 505 505
	Total Packages Total Weight Total Declared Value*
Leganopask ikoaspoentalan: kann/paskanno maganoasanom-anominakana Paskasha	**Dur facility is finited to \$100 critical your declare a higher value. See back for decade. By using this Arbit you again to the service conditions on the best of this Arbit and in the sourcet-facility Souries Guide, including terms that tank our facilities.
	Ranc Data 2/10 = Part #152261 = @1594-2010 Fadds = PRONTED IN U.S.A. SRY
FecEx. US Airbill 8741 7839 0147	្រាយម៉ាញ់ Sender's Copy
	4a Express Package Service • In most incustoms. Packages up to 150 lbs.
Express 1 From Please priot and press hard 1 L/1 - /1 > Sendar's FedEx /st war Place For A Place For	4a Express Package Service Tagger Priority Overnight Hed bunkes mortage Fridery of statered on Montes after an expression of the statered of the statered on Montes after an expression of the statered of the statered of the statered of the statered on Montes after a statered on Montes
Express 1 From Please prior and press hard Data 1/10/12 Sender's FedEx Account Number Sender's FedEx Account Number Sender's FedEx Account Number Sender's FedEx	4a Express Package Service The most headlers. FedEx Priority Overnight Heat bosiness another Friday Leadings and the Service Search Heat bosiness another Friday Leadings another Friday Leadings another Friday Leadings another Friday Leadings and Leadings Another Heat bosiness and Leadings Leadings Delivery NOT residents. FedEx Standard Delivery NOT residents. FedEx Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever Their bosiness days Standard Delivery NOT residents. FedEx Express Sever
Express 1 From Please print and press hand Date 4/10/12 Sender's FadEx Account Number Ist angents Sender's FadEx Name 50e Petry Phone 7321570-4943	Ga Express Package Service The most leastlean. Factor Priority Overnight Heat business arrange and selected on Montaly unless SULUDAV Debury in neighbor. Factor Suludava Selected Factor Priority Overnight Heat business deepend on Montaly unless SULUDAV Debury is neighbor. Factor Suludava Selected
Express 1 From Piesso print and press hard Date 4/10/12 Sender's FedEx Account Number Let unpelled Expended Report Repo	4a Express Package Service The most headless. Packages up to 150 lbs. FedEx Priority Overnight Heat business dispersion on Montey of the Markey business dispersion. Satisfary Delivery NOT evaluate. FedEx Clary Security Delivery NOT evaluate. FedEx Clary Satisfary Delivery NOT evaluate. FedEx ID sy Freight Next business day. The active and the security of the s
Express 1 From Please print and press hard Date 4/10/12 Sender's FedEx Account Number Ist profile Sender's FedEx Name Sae Petry Phone (732) 570-4943 Company Westen Salutions, Inc Address C90 King Georges Post Road Suite 20/ Cay Faison State NJ zip 08837	4a Express Package Service Tractic Priority Overnight Heat business anchage Tridery Anthouses mortals Tridery Anthouses will be fellowed on Montal Heat business dearmon. Safer Services Fedity Copy Unless SAUMEN/ Delivery is selected. Fedity Copy Second business Geg* Trimedry Second business Geg* Trimedry Second business Geg* The duminess Geg*
Express 1 From Please print and press hand Date 4/10/12 Sender's FadEx Account Number Ist argents de Exact of BN NUMBER DNLY Sender's Jae Petry Phone 7321570-4943 Company Weston Salutions, Inc Address C90 King Georges Post Road Suite 20/ Depthorogram/Num Cav Edison State NJ ZP 08837 2 Your Internal Billing Reference	4a Express Package Service TedEx Priority Overnight Heat business service in selected. FedEx Priority Overnight Heat business service in selected. FedEx Standard Overnight Heat business service in selected. FedEx Standard Overnight Heat business service States of the selected on Montey unless SURRAN Orbits in selected. FedEx To surray to selected. FedEx Express Sever Ted business day.* The select business service States of the selected of the selected on Montey unless SURRAN Orbits is selected. FedEx Express Sever Ted business day.* States day. States day.* States day.* States day.* States day.* States day. States day.* States
1 From Piesso print and press hard Date 4/10/12 Sender's FedEx Account Number Letter 18 Sex Accord 20 NUMBER ONLY Sender's Jae Petry Phone (7321570-4943) Company Westen Salutions, Inc Address C90 King Georges Post Road Suite 20/1 CRU Edison State NJ ZP 08837 2 Your Internal Billing Reference First Advance on Inc. 3 To Recipients Chris Bonner Phone (601) 264-2854 Company Bonner Analytical Testing Company	4a Express Package Service *In most headless. Packages up to 150 fbs. Packages up to 150 fbs. Packages up to 150 fbs. FedEx Priority Overnight Heat business entages "Headley statement will be delivered on Monthly Indicated Heat business day." The delivery have been been delivered on Monthly Searchy Delivery NOT evaluable. FedEx 2Day Freight Service FedEx 1Day Freight Service *** Packages ever 150 fbs. FedEx 1Day Freight Service *** Packages ever 150 fbs. FedEx 1Day Freight Service *** Packages ever 150 fbs. FedEx 2Day Freight Service FedEx 2Day Freight Second business day.** Packages ever 150 fbs. FedEx 2Day Freight Second business day.** Packages ever 150 fbs. FedEx 2Day Freight Second business day.** Packages ever 150 fbs. FedEx 2Day Freight Second business day.** Packages ever 150 fbs. FedEx 3Day Freight Second business day.** Business will be delivered on Monthly unless 2DURDAY Delivery Not averbale. FedEx Express FedEx FedEx Secure FedEx Secure FedEx Fe
1 From Piesso print and press hard Date 4/10/12 Sender's Feder Name Jae Petry Phone (732) 570-4943 Company Westen Salutions, Inc Address C90 King Georges Post Road Suite 20 Depth confidential Billing Reference First Schwedure all appears on Incidential Reference Name 2 Your Internal Billing Reference 20401-13 Gette 24. To Recipients Chris Bonner Phane (601) 264-2854 Company Bonner Analytical Testing Company HOLD Weekday Red Road Patron Relation of Phone (601) 264-2854 Ma camp Aldress 2703 Calk Grave Road Patron Relations of Proceedings and Patron Relations of Procedure Road Patron Relations of Patron Relations of Procedure Road Patron Road Patron Relations of P	4a Express Package Service *In most headless. Packages up to 150 fbx. FedEx Priority Overnight Heat business designed in blooding of subsection of histories designed in blooding of subsection of histories designed to subsect designed in blooding of subsection of histories designed to subsect designed in blooding of subsection of histories designed to subsect designed in blooding of subsection of histories designed to subsect designed in blooding of subsection of histories designed to subsect designed in blooding of subsection of histories designed to subsect to subsect designed to subsect dest subsect designed to subsect designed to subsect designed to su
Express 1 From Please print and press hard Date 4/10/12 Sender's FedEx Account Number Set 15 Sender Set 15 Sender Set 15 Sender Se	4a Express Package Service *Th most headless. Packages up to 150 fbs. FedEx Priority Overnight Heat business designed in blooding of subsence of the subsence of
1 From Please print and press hard Date 4/10/12 Sender's FedEx Account Number Is a press of Sender's Robert Road Sender's Robert Road Sender's Sen	4a Express Package Service *In most headlens. Packages up to 150 lbs. FedEx Priority Overnight Heat business deep ** Heat of the state
1 From Please print and press hard Date 4/10/12 Sender's Fadex Account Number Sender's Section 13 NOMBER ONLY Sender's Sender's Selection 13 NOMBER ONLY Sender's Sender's Selection 13 Sender's Fadex Name Phone (732) 570-4943 Company Westen Selection 5 Sender Face Selection 13 Nomber Only Cav Edison State NJ IP 0883 7 2 Your Internal Billing Reference Press of the control of the Company Sender Only Sender Selection 13 Sender Phone (601) 264-2854 Company Sender Analytical Testing Company Address 703 Cak Grove Road We cannot differ to Pill, becarror Pill, I'm codes. Address No Company Sender Only of the Code Sender Oppulation of your shipping address. Address No Company Sender Oppulation address or for continuation of your shipping address. Address Oppulation address or for continuation of your shipping address. Address Oppulation of the Mills Inc. Address or for continuation of your shipping address. Address Oppulation of the Mills Inc. Address or for continuation of your shipping address.	4a Express Package Service *In most headlens. Packages up to 150 lbs. FedEx Priority Overnight Heat business days ** Heat you have been sent to state the state of
1 From Please print and press hard Date 4/10/12 Sender's FedEx Account Number Sender's Section B Nomber ONLY Sender's Jee Petry Phone (7321570-4943) Company Westen Solutions, Inc Address 0.90 King Georges Post Road Suite 20 Depth pool Sender Billing Reference Service and appear on books. State NJ IP 08837 2 Your Internal Billing Reference 2040 - 13 9 1000 4. 3 To Recipient's Chris Bonner Phone (601 1264-2854) Company Bonner Analytical Testing Company Address 703 Oak Grove Road Address 703 Cak Grove Road We cannot about to 101 house 101 12 10 10 10 10 10 10 10 10 10 10 10 10 10	## Express Package Service *The most horations. FedEx Priority Overnight FedEx Standard Overnight FedEx Overnight FedEx Standard Overnight FedEx Standard Overnight FedEx Standard Overnight FedEx Standard FedEx

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AirbillNo: 874178390170

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041112-173938-0006

Cooler #: 4

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8E1	SW-003-001	GSR-DST-3	1036	CLP TCL Volatiles	Surface Water	4/11/2012	11:00	3	40 ml VOA	HCI pH<2	N
	BASE1	SW-003-001	GSR-DST-3	1037	CLP TCL Semivolatiles	Surface Water	4/11/2012	11:00	2	1 liter amber	4 C	N
	BASE1	8W-003-001	GSR-DST-3	1038	CLP TCL Arodora	Surface Water	4/11/2012	11:00	2	1 liter amber	4C	Ň
	BASE2	SW-005-001	F4	1041	CLP TCL Volatiles	Surface Water	4/11/2012	14:40	3	40 ml VOA	HCI pH<2	N
	BA8E2	SW-005-001	F4	1042	CLP TCL Semivolatiles	Surface Water	4/11/2012	14:40	2	1 liter amber	4 C	N
	BASE2	SW-005-001	F4	1043	CLP TCL Arodors	Surface Water	4/11/2012	14:40	2	1 liter amber	4C	N
2	BA8E3	SW-006-001	F3	1046	CLP TCL Volatiles	Surface Water	4/11/2012	15:25	3	40 ml VOA	HCI pH<2	N
	BASE3	SW-006-001	F3	1047	CLP TCL Semivolatiles	Surface Water	4/11/2012	15:25	2	1 liter amber	4 C	N
	BASE3	SW-006-001	F3	1048	CLP TCL Aroclors	Surface Water	4/11/2012	15:25	2	1 liter amber	4 C	N
	BASE4	SW-007-001	F2	1051	CLP TCL Volatiles	Surface Water	4/11/2012	18:00	3	40 ml VOA	HCI pH<2	N
	BASE4	SW-007-001	F2	1052	CLP TCL Semivolatiles	Surface Water	4/11/2012	18:00	2	1 liter ámber	4C .	N

			SAMPLES TRANSFERRED FROM
Special instructions:	18		CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Ind Potts	4/11/2	Jedle	4/11/12	2030						a _K
7											

Page 2 of 4

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AirbillNo: 874178390170 CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041112-173938-0008

Cooler #: 4

Lab: Liberty Analytical Corporation

Case #; 42434

Lab#	CLP Sample #	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8E4	SW-007-001	F2	1053	CLP TCL Arcclors	Surface Water	4/11/2012	18:00	2	1 liter amber	4C.	N
	BASES	SW-004-001	F6	1071	CLP TCL Volatiles	Surface Water	4/11/2012	11:50	3	40 ml VOA	HCI pH<2	N
	BASES	SW-004-001	F6	1072	CLP TCL Semivolatiles	Surface Water	4/11/2012	11:50	2	1 liter amber	4 C	N
	BA8E8	\$W-004-001	F5	1073	CLP TCL Aroclors	Surface Water	4/11/2012	11:50	2	1 liter amber	4 C	N
	BA8F0	TB-041112	Trip Blank	1081	CLP TCL Volatiles	Delonized Water	4/11/2012	11:00	3	40 ml VOA	HCI pH<2	N
	BASF1	8D-003-0006- 001	GSR-DST-3	1083	CLP TCL Semivolatiles	Sediment	4/11/2012	11:15	1	8 oz Glass Jar	4 C	N
	BASF1	8D-003-0006- 001	GSR-DST-3	1084	CLP TCL Arodors	Sediment	4/11/2012	11:15	1	B oz Glase Jar	4 C	N
	BA8F1	SD-003-0006- 001	GSR-DST-3	1085	CLP TCL Volatiles	Sediment	4/11/2012	11:15	3	Encore	4 C	N
	BA8F1	SD-003-0008- 001	GSR-DST-3	1088	Percent Moisture	Sediment	4/11/2012	11:15	1	4 oz Glass Jar	4 C	N
	BABF2	8D-004-0006- 001	F5	1090	CLP TCL Semivolatiles	Sediment	4/11/2012	12:20	1	8 oz Glass Jar	4C	N
	BASF2	SD-004-0006- 001	F5	1091	CLP TCL Arodore	Sediment	4/11/2012	12:20	1	8 oz Glass Jer	4 C	N

(2015年) 1916年 1	· · · · · · · · · · · · · · · · · · ·
	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jul Pully	9/11/10	FULL	4/11/12	90 3 0						
										-	
,											

Page 3 of 4

USEPA

DateShipped: 4/11/2012 CarrierName; FedEx AirbillNo: 874178390170 **CHAIN OF CUSTODY RECORD**

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943

Cooler #: 4 Lab: Liberty Analytical Corporation Case #: 42434

Lab#	CLP Sample #	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8F2	SD-004-0006- 001	F5	1092	CLP TCL Volatiles	Sediment	4/11/2012	12:20	3	Encore	4 C	N
	BA8F2	SD-004-0006- 001	F5	1095	Percent Moleture	Sediment	4/11/2012	12:20	1	4 oz Glass Jar	4 C	N
•	BA8F3	SD-005-0006- 001	F4	1097	CLP TCL Semivolatiles	Sediment	4/11/2012	14:50	1	8 oz Glass Jar	4 C	N
,	BA8F3	SD-005-0006- 001	F4	1098	CLP TCL Aroclors	Sediment	4/11/2012	14:50	1	8 oz Glass Jar	4C	N.
	BASF3	SD-005-0006- 001	F4	1099	CLP TCL Volatiles	Sediment	4/11/2012	14:50	3	Encore	4 C	N
	BA8F3	SD-005-0006- 001	F4	1102	Percent Moisture	Sediment	4/11/2012	14:50	1	4 oz Glass Jar	4 C	N
n.	BA8F4	SD-006-0006- 001	F3	1104	CLP TCL Semivolatiles	Sediment	4/11/2012	16:25	1	8 oz Glass Jar	4C	N
	BASF4	SD-006-0008- 001	F3	1105	CLP TCL Arodors	Sediment	4/11/2012	16:25	1	8 oz Glass Jar	4 C	N
	BA8F4	SD-006-0006- 001	F3	1106	CLP TCL Volatiles	Sediment	4/11/2012	16:25	3	Encore	4 C	N
14	BASF4	SD-006-0006- 001	F3	1109	Percent Moisture	Sediment	4/11/2012	16:25	1	4 oz Glass Jar	4 C	N
	BA8F5	SD-007-0006- 001	F2	1111	CLP TCL Semivolatiles	Sediment	4/11/2012	17:45	1	8 oz Glass Jar	4 C	N

		A	. ,		SAMPLES TRANSFERRED FROM
Special instructions:	* .				CHAIN OF CUSTODY #
	•			•	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Refinquished By	Date	Received by	Date	Time
	Jord Petts	4/11/12	FedEr	4/11/12	2030				7	4.54	
w. c. wyrs	8										
			× //	75 W					5		

Page 4 of 4

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AirbillNo: 874178390170

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943

Cooler #: 4

Lab: Liberty Analytical Corporation
Case #: 42434

Lab#	CLP Sample #	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8F5	SD-007-0006- 001	F2	1112	CLP TCL Arodors	Sediment	4/11/2012	17:45	1	8 oz Giass Jar	4 C	N
	BA8F5	SD-007-0006- 001	F2	1113	CLP TCL Volatiles	Sediment	4/11/2012	17:45	3	Encore	4 C	N
	BA8F5	SD-007-0006- 001	F2	1116	Percent Moisture	Sediment	4/11/2012	17:45	1	4 oz Glasa Jar	4 C	N
									-			>
		- 1										
								2 1			· · · · · · · · · · · · · · · · · · ·	
ā.											-	
(#)									ļ			
		1 200	·				-	-			 	<u> </u>
	1	11/17			1 2				1			
-	hA/						 				 -	
1	7								•			
]	<u> </u>	19.	<u> </u>		1					

	 		×	 SAMPLES TRANSFERRED FROM	·····
Special Instructions:				CHAIN OF CUSTODY #	
		100			

items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all songs	Jullets	4/11/12	Fed Es	4/11/12	3030		6			la Vi	
					5				2		ř
					*		×		7 =		

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AirbillNo: 874178390169

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943

Cooler #: 1

Lab: Bonner Analytical Testing Company Case #: 42434

Lab∙#	CLP Sample#	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8E1	SW-003-001	GSR-DST-3	1034	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/11/2012	11:00	1	1 L poly	HNO3 pH<2	N
	MBA8E1	SW-003-001	GSR-DST-3	1035	CLP Cyanide	Surface Water	4/11/2012	11:00	. 1	1 L poly	NaOH pH>12	N
16	MBA8E2	SW-005-001	F4	1039	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/11/2012	.14:40	1	1 L poly	HNO3 pH<2	N
10	MBA8E2	SW-005-001	F4	1040	CLP Cyanide	Surface Water	4/11/2012	14:40	1	1 L poly	NaOH pH>12	N
1.5	MBA8E3	SW-006-001	F3	1044	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/11/2012	15:25	1	1 L poly	HNO3 pH<2	N
	MBA8E3	SW-006-001	F3	1045	CLP Cyanide	Surface Water	4/11/2012	15:25	1	1 L poly	NaOH pH>12	N
	MBA8E4	SW-007-001	F2	1049	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/11/2012	18:00	1155	1 L poly	HNO3 pH<2	N
i s	MBA8E4	SW-007-001	F2	1050	CLP Cyanide	Surface Water	4/11/2012	18:00	1	1 L poly	NaOH pH>12	N
	MBA8E8	SW-004-001	, F5	1069	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/11/2012	11:50	1	1 L poly	HNO3 pH<2	N
	MBA8E8	SW-004-001	F5	1070	CLP Cyanide	Surface Water	4/11/2012	11:50	1	1 L poly	NaOH pH>12	N
	MBA8F1	SD-003-0006- 001	GSR-DST-3	1082	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/11/2012	11:15	1	8 oz Glass Jar	4 C	N

	ri/			SAMPLES TRANSFERRED FROM
Special Instructions:				CHAIN OF CUSTODY #
	 *	•	¥.	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
allandinge	In Poly	4/11/10	Jed En	4/11/1	2030				580		
		1									
	9.8						34				

Page 2 of 2

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AlrbitNo: 874178390169

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041112-173855-0005

Cooler #: 1

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8F2	SD-004-0006- 001	F5	1089	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/11/2012	12:20	1	8 oz Glass Jar	4.C	N
	MBA8F3	SD-005-0006- 001	F4 .	1096	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/11/2012	14:50	1	8 oz Glass Jar	4 C	N
	MBA8F4	SD-006-0006- 001	F3	1103	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/11/2012	16:25	1	8 oz Glasa Jar	4 C	N
	MBA8F5	SD-007-0006- 001	F2	1110	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/11/2012	17:45	1	8 oz Glass Jar	4C	N
-	A SHOWING THE PERSON OF THE PERSON OF											
												1
							<u> </u>				ļ	-
		<u> </u>	<u> </u>	-		<u> </u>						_
	<u> </u>			ļ				<u> </u>	-		*	
	<u> </u>	1.0		<u> </u>		ļ	 	 				ļ
		1111	1	F			ļ					
		1107		 		 	 	 				
-/	100											
	10		•					1 1		·		
	K .	15			As a	2 222.40 324.5						

			<u></u>	SAMPLES TRANSFERRED FROM
Special Instructions:				CHAIN OF CUSTODY #
	 	*		

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	· Date	Time
all somply	Quelf ette	4/11/10	Toller	4/11/12	2030	7		\$20 °			45
aralysis	you way	1.1110	-40	17/1/14	30	<u> </u>		i.			
							1	723 B	<i>H</i>	ili.	
			* -		-1					-	
						196 87 - 198				 	
			•		2				No.		

USEPA

DateShipped: 4/11/2012 CarrierName: FedEx AirbillNo: 875094866330

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041112-185159-0007

Cooler #: 1 Lab: DESA

Lab#	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	SD-001-0006-001	GSR-DST-1	Total Organic Carbon	Sediment	4/9/2012	1	8 cz Glass Jar	4 C	N
	8D-001-0006-001	GSR-DST-1	Grain Size	Sediment	4/9/2012	, 1	16 oz Poly Bottle	4 C	N
	SD-002-0006-001	GSR-DST-2	Total Organic Carbon	Sediment	4/10/2012	1	8 cz Glass Jar	4 C	N
	SD-002-0006-001	GSR-DST-2	Grain Size	Sediment	4/10/2012	1	16 oz Poly Bottle	4 C	N
	SD-003-0006-001	GSR-DST-3	Total Organio Carbon	Sediment	4/11/2012	1	8 oz Glass Jar	4 C	N
	SD-003-0006-001	GSR-DST-3	Grain Size	Sediment	4/11/2012	1	16 oz Poly Bottle	4 C	N
	SD-004-0006-001	F6	Total Organic Carbon	Sediment	4/11/2012	1	8 oz Glass Jar	4 C	N
ū.	8D-004-0006-001	F5 '	Grain Size	Sediment	4/11/2012	1	16 oz Poly Bottle	4 C	N .
	SD-005-0006-001	F4	Total Organic Carbon	Sediment	4/11/2012	1	8 cz Glass Jar	4 C	N
	SD-005-0006-001	F4	Grain Size	Sediment	4/11/2012	1	16 oz Poly Bottle	4 C	N
	SD-006-0006-001	F3	Total Organio Carbon	Sediment	4/11/2012	. 1	8 oz Glass Jar	4 C	N
	SD-006-0006-001	F3	Grain Size	Sediment	4/11/2012	1	16 oz Poly Bottle	4 C	N
	SD-007-0006-001	F2	Total Organic Carbon	Sediment	4/11/2012	1	8 oz Glass Jar	4 C	N
	SD-007-0006-001	F2 .	Grain Size	Sediment	4/11/2012	1	16 oz Poly Bottle	4 C	N
	10	A Ha					i e		
	1 de								
	MI					<u> L</u>	<u> </u>	<u> </u>	

		3 35-50/33/37-51/52/ 2 0 0 2 0	SAMPLES TRANSFERRED FROM	277777
Special Instructions:			CHAIN OF CUSTODY #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Wellety	4/11/12	Feder	4/11/2	2030		· ·				
			·			·					

FedEx. US Airbill Express US Airbill Page 4741 7839 0170	Sender's Copy
1 From Please print and press hand. Sender's FedEx Account Number 400845 COSUNT NUMBER ONLY Account Number	48 Express Package Service "To ment locations. Packages up to 150 lbs. FadEx First Overnight Next business condise. "However, and a delivered as Notice with seasons." Seturbly Delivery NOT evaluable. Endex First Overnight Ment business will be addressed as Notice and Service and Service mentions are morning delivery in select locations."
Sender's Joel Petty Phone 1732 1570 -4943	unious SAURGAV Optimy is edecated. FedEx 2D ary Second bisminess day,* Thirmfally subjected to the Color of the Color
company Weston Solutions, Inc.	4b Express Freight Service "To most bootisms. Packages over 150 lbs.
Address 1090 King Georges Post Rd Suite 201	FedEx 1Day Freight C A £ L 1 . 8 0 0 . 3 3 2 . 0 8 0 7 Next humbers day. "Friday chipments will be federed on Monday unless SATURDAY Betweyn is selected. FedEx 2Day Freight Second naminess day." Theselectry shipments will be delivered on Monday makes SATURDAY Delivery is selected. FedEx 3Day Freight Third benimess day." Saturday whipments will be delivered on Monday makes SATURDAY Delvery is selected.
City Edison State NJ ZIP 08837	FedDix 20 ary Freight FedDix Placefory objections will be delivered on Monday unless \$500,000 Preight FedDix Placefory between \$400,000 Preight FedDix Placefor FedD
2 Your Internal Billing Reference 20401-135 son 24 of 5233 3 To	Envelope* Pak and Box Tube 6 Special Handling and Delivery Signature Options
Name Bob Meierer Phone 9191379-4100	SATURDAY Delivery NOT evalletie to fuelis Standard Oversight, Feditic Engress Server, or Feditic Stary Presights.
company Liberty Analytical Corporation HOLD Weekday	No Signature Required Pectage may be list velocit Cotating a algorithm for delivery. Prior applies. Direct Signature Feature in a construction of the delivery. Prior applies. Indirect Signature In occur to verificion or to construct or construction of the construc
Address 50 Madison Ave We assumptioner to P.D. because P.D. 21P codest. We assumptioner to P.D. because P.D. 21P codest. HOLD Saturday	Does this shipment contain dangerous goods? One box near he checked. Yes No Ager ansched Shipper Declaration Only Ice Ory Ic
We cannot be tweether to P.D. boxes or P.D. 20° codes. HOLD Saturday Actions Actions Use this bit serve HOLD location address or for confeasation of your ablepting address.	Bangarous goods flocksting dry lost current be dripped in Fedits packaging or placed in a Fedits Express Drap Box. Cargo Aircraft Only
Can Cary State NC ZIP 27513	7 Payment Bill to: Sender Britis Fedito: Acct. Na. or Count Card Na. below. Acct. Na. h Senden Recipient Third Party Credit Card Cast VCheck
	Factor No. 100356103 Eq. Total Peckages Total Weight Total Declared Value*
Fry Falls & Cincle Sin partition (2000)	Therfachthy is without to \$1000 missos you decisive a higher video. See back for details, By salong ties Arbiti you opers to the an indica combined to be back of this Arbiti and in the current Fredit's Service Guide, including terrors LDL
	That time cours analyses. Pent, Dates 2710 - Pent, PERSEN - DOTSEN-2008 Feelbx - PRINTED IN U.S.A. SRY
FedEx. US Airbill 8741 7839 0169	Sender's Copy
Date 4/11/12 Sender's FedEx Account Number 4 Sender's FedEx Ac	4a Express Package Service ** to ment bountons. FedEx Priority Overnight her bothers mentare. Fidely, shipment will be defined on Moorths Saurise/Definery.NOT evaluate. FedEx Standard Overnight for Saurise/Definery.NOT evaluate. FedEx First Overnight for Saurise/Definery.NOT evaluate.
Sender's Joel Petty Phone (732) 570-4943	TedEx 2Day Secret Journals dept "Thursday shipments will be solutioned dept" Thursday shipments will be solutioned on Monday shipments will be solved on Monday shipments will be sh
company Weston SolyHans, Inc.	4b Express Freight Service "Is must booties. Packages over 190 lbs.
Address 1090 King Georges Post Rd Sulte 201	Next borders of Sey" Friday originates will be dischered on American belows SCHIRDOY Friday Booking No. Dischery is subscut. Southern Street Sey
Cive Edison Sman NJ IP 08837	5 Packaging *Declared within Brit 1500.
2 Your Esternal Billing Reference 20401 • 135 • 0094 • 5333 3 To	FedEx FedEx Pak* FedEx Const Pak and FedEx Tube FedEx Tube Other FedEx Tube Special Handling and Delivery Signature Options
Name Chris Bonner Phone (601) 264-2854	SATURDAY Delivery NOT evaluable for Fedix Standard Overnigat, Fedix Express Serve, or Fedix 2Day Freights.
company Bonner Analytical Testing Company	No Signature Required Package may be left without Consoling a dejustature Science, and so were a well-state extractioning address may do not delivery. For applica. Direct Signature Sommor signature do not be well-state extractioning address may do not delivery. For residence of delivery, or residence of delivery in the species.
Address of 103 Oak Grove Road Requires Not consider to	Poes uns ampunent contain campengus goods? Ves Ves
HOLD Seturday Address Use to the HOLD location address or for continuation of your shipping address.	Designations goods (trobating dryline) curried be shipped in Fieldis peckaging or placed in a Fieldis Express Dicty Box. Cergo Aircraft Only
and tatties burg sum MS 21 39402	7 Payment Bill to: Sergier Enter Feelbr. Acct. Ma. or Credit Card Ma. belovs. Acct. Ma. b Seedon Recipient Triffed Party Credit Card Card Castly/Chack
	Third Party Credit Card Cash/Chack Feducation Cash/Chack C
Shire no read chaokayas ar faire, comis	Our inhalty is includ to 500 unitary or science has favor union. See back for science, by uning this Arithiyou again to the service conditions on the back of the Arithing or science funding the counter funding formed duties included by arithing the counter funding formed duties included by arithing formed funding to the counter funding formed duties included by arithing funding formed funding formed funding formed funding fund

	Express US Airbill # 8750 9486 6330		a geografia	Sender's Copy
1	From Piesse print and press hard. Data 4/11//2 Sender's FedEx Account Number 4/028534564560188 NUMBER ONLY Sender's Joe Petty Phone 732, 570 -4943	4	FedEx Priority Overright Net Insteam corrieg "Fiction" This makes an excessing "Fiction" This makes all the distance of a Manday Legisma SAUMDAY Orderey in selected. FedEx Express Saver Third business days "Thirmley distincts will be distanced on blanday interest will be distanced on blanday.	Packages up to 150 lbs. Fed Ex First Overnight Earlest niet besites morbing dallwry to select localizm.*
	company Western Solutions, Inc	4b	Express Freight Service - Townstroopen.	Packages over 150 lbs.
ei i	Address 1090 King Georges Post Rd Suite 201		Next business day, "Filter adopted to ME to delivered on Monday unless SATUROAY Fulfit, Tibay Fraight Booking No. Delivery is selected. End for 201 as Engine by	
2	Your Internal Billing Reference	5	Packaging • Declared value Build State Fed Ex	y Freight day Delivery NOT available. FedEx Other
_	To Recipient's John Birci Phone 738321-6707	6	Envelope* Industra Reds Stand Pals and Box Reds Legal Pals Special Handking and Delivery Signature Options Special Handking and Delivery Signature Options SATURDAY Delivery ROT analysis for delivery Standard Ovenight, Fedit Spress Save, or Fedit Stanfard Ovenight.	Tube />
	company U-S Environmental Protortion Agency - DEBA		NO Signature Required Process only to the Common of the Co	Indirect Signature If no one is available at recipients address, assessed at a mulphoring address, assessed and the delivery. For residential deliveries only. For opplies.
	Address OR QU Wood bridge AL Bldc20 HOLD Weekday Finish location relations to the connect entered to Ref. horde in 10.20 closes. We connect entered to Ref. horde in 10.20 closes. MS - 330 HOLD Sections address resolution to the connect entered to Ref. horde in 10.20 closes.	47	Does this shipment contain dangerous goods? Ose has sout he checked. No Aper studed Stopen Declaration Dry Ice Stopen Declaration Dry Ex. & Or	
	Add less DOT - PROJECT AND THE PROJECT OF Confinence or for confinence of year shipping editives. Project Proje	7	percus goods flactuiting day tool commot be shipped in Feditic pectualing level in a Fediti Express Direct Box. Parymnents: Bill face:	Cargo Aircraft Only
	City C 1500 State (V.) ZIP (ZIP (ZIP)	Fede	Sender Enter Feditio Acot. No. or Credit Card No. below. Acot. No. In Section Recipient Stained Party Card. Acot. No. 1200 155.	redit Card Cash/Chack
			tal Packagas Total Wajohk Total Declared Value	
	Type are summy human constraint	†Our	rishilly is divited to S1M order you'd fulfillers a higher value. See back for details, By ming this Air se to the service conditions on the back of the Airfall and in the current Putils; Border Guide, include	LOL

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx Airbi#No: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Patty

Contact Phone: 732-570-4943

No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
2	BA8D3	RB-041212	Rinsate Blank	1002	CLP TCL Volatiles	Delonized Water	4/12/2012	14:30	3	40 ml VOA	HCI pH<2	N
	BA8D3	RB-041212	Rinsate Blank	1003	CLP TCL Semivolatiles	Delonized Water	4/12/2012	14:30	2	1 liter amber	4 C	N
	BA8D3	RB-041212	Rinsate Blank	1004	CLP TCL Arcolors	Delonized . Water	4/12/2012	14:30	2	1 liter amber	4 C	N
	BA8E6	SW-008-001	F1	1056	CLP TCL Volatiles	Surface Water	4/12/2012	09:00	3	40 ml VOA	HCI pH<2	N
	BA8E5	SW-008-001	F1	1057	CLP TCL Semivolatiles	Surface Water	4/12/2012	09:00	2	1 liter amber	4 C	N
	BA8E5	SW-008-001	F1	1058	CLP TCL Aroclors	Surface Water	4/12/2012	09:00	2	1 liter amber	4 C	N
	BASE6	SW-009-001	C4	1061	CLP TCL Volatiles	Surface Water	4/12/2012	09:05	3	40 ml VOA	HCI pH<2	N
	BASE6	SW-009-001	C4	1062	CLP TCL Semivolatiles	Surface Water	4/12/2012	09:05	2	1 liter amber	4 C	N
	BASE6	SW-009-001	C4	1063	CLP TCL Aroclors	Surface Water	4/12/2012	09:05	2	1 liter amber	4 C	N
	BASE7	PW-009-06-001	C4	1066	CLP TCL Volatiles	Pore Water	4/12/2012	09:30	3	40 ml VOA	HCI pH<2	N
	BA8E7	PW-009-06-001	C4	1067	CLP TCL Semivolatiles	Pore Water	4/12/2012	09:30	2	1 liter amber	4C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all amily	Melety	4/12/12	Ded En	4/12/10	200	** ;	16		(\$)	10	14
					39			17			
junio, iriba.				6. 6.	()	11 112 14					47

Page 2 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbilNo: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BASE7	PW-009-06-001	C4	1068	CLP TCL Arodors	Pore Water	4/12/2012	09:30	2	1 liter amber	4 C	Ņ
	BA8F6	SD-008-0006- 001	F1	1118	CLP TCL Semivolatiles	Sediment	4/12/2012	10:00	1	8 oz Glass Jar	4 C	N
	BA8F6	SD-008-0006- 001	F1	1119	CLP TCL Arodors	Sediment	4/12/2012	10:00	1	8 oz Glass Jar	4 C	N
	BA8F6	SD-008-0006- 001	F1	1120	CLP TCL Volatiles	Sediment	4/12/2012	10:00	3	Encore	4 C	N.
	BA8F6	SD-008-0006- 001	F1	1123	Percent Moisture	Sediment	4/12/2012	10:00	1	4 oz Glass Jar	4 C	N
	BA8F7	SD-009-0006- 001	C4	1125	CLP TCL Semivolatiles	Sediment	4/12/2012	10:05	1	8 oz Glass Jar	4 C	N
-	BA8F7	SD-009-0006- 001	C4	1126	CLP TCL Arodors	Sediment	4/12/2012	10:05	1	8 oz Glass Jar	4 C	N
· ··· · · · · · · · · · · · · · · · ·	BA8F7	SD-009-0006- 001	C4 .	1127	CLP TCL Volatiles	Sediment	4/12/2012	10:05	. 3	Encore	4 C	N
	BA8F7	SD-009-0006- 001	C4	1130	Percent Moisture	Sediment	4/12/2012	10:05	1	4 oz Glass Jar	4 C	N
	BA8F8	TB-041212	Trip Blank	1131	CLP TCL Volatiles	Delonized Water	4/12/2012	11:00	3	40 ml VOA	HCI pH<2	N
	BA8F9	SW-010-001	E3	1134	CLP TCL Volatiles	Surface Water	4/12/2012	11:20	3	40 ml VOA	HCI pH<2	N

			SAMPLES TRANSFERRED FROM
Special instructions:		w *	CHAIN OF CUSTODY #
	*	•	3-

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all analysis	Jul Petty	4/12/19	Fed &	4/12/12	2100	1.0					
71750			27.					,			
								•	¥		

Page 3 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbiliNo: 87417839 CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8F9	SW-010-001	E3	1135	CLP TCL Semivolatiles	Surface Water	4/12/2012	11:20	2	1 liter amber	4 C	N
	BA8F9	SW-010-001	E3	1136	CLP TCL Arodors	Surface Water	4/12/2012	11:20	2	1 liter amber	4 C	N
	BA8G0	PW-010-06-001	E3	1139	CLP TCL Volatiles	Pore Water	4/12/2012	11:25	3	40 ml VOA	HCI pH<2	N
XI	BA8G0	PW-010-06-001	E3	1140	CLP TCL Semivolatiles	Pore Water	4/12/2012	11:25	2	1 liter amber	4 C	N ·
	BA8G0	PW-010-06-001	E3 ·	1141	CLP TCL Aroclars	Pore Water	4/12/2012	11:25	2	1 liter amber	4 C	N
	BA8G1	PW-010-18-001	E3	1144	CLP TCL Volatiles	Pore Water	4/12/2012	11:55	3	40 ml VOA	HCI pH<2	N
	BA8G1	PW-010-18-001	E3	1145	CLP TCL Semivolatiles	Pore Water	4/12/2012	11:55	2	1 liter amber	4 C	N
	BASG1	PW-010-18-001	E3	1146	CLP TCL Aroclors	Pore Water	4/12/2012	11:55	2	1 liter amber	4 C	N
	BA8G2	SD-010-0008- 001	E3	1148	CLP TCL Semivolatiles	Sediment	4/12/2012	12:20	1	8 oz Giass Jar	4 C	N .
	BA8G2	SD-010-0006- 001	E3	1149	CLP TCL Arodors	Sediment	4/12/2012	12:20	1	8 oz Gless Jar	4 C	N
4	BA8G2	SD-010-0006- 001	E3	1150	CLP TCL Volatiles	Sediment	4/12/2012	12:20	3	Encore	4 C	N

		SAMPLES TRANSFERRED FROM
Special Instructions:		CHAIN OF CUSTODY#
	te.	•

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples all anotines	Jer/ Petty	4/12/12	Jed Gr	4/12/12	2100	(9)					
7-											
1			- 40		n .				6		
					li						

Page 4 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbillNo: 87417839 CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation

Lab#	CLP Sample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8G2	SD-010-0006- 001	E3	1153	Percent Moisture	Sediment	4/12/2012	12:20	1	4 oz Glass Jar	4 C	N
	BA8G3	SW-011-001	C3	1156	CLP TCL Volatiles	Surface Water	4/12/2012	11:55	3	40 ml VOA	HCI pH<2	N
	BA8G3	SW-011-001	СЗ	1157	CLP TCL Semivolatiles	Surface Water	4/12/2012	11:55	2	1 liter amber	4C	N
	BA8G3	SW-011-001	C3	1158	CLP TCL Areders	Surface Water	4/12/2012	11:55	2	1 liter amber	4 C	N.
***********	BA8G4	SD-011-0006- 001	C3	1160	CLP TCL Semivolatiles	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	4 C	·N
	BA8G4	SD-011-0006- 001	C3 .	1161	CLP TCL Arodors	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	4 C	N
	BA8G4	SD-011-0006- 001	C3	1162	CLP TCL Volatiles	Sediment	4/12/2012	12:20	3	Encore	4 C	N .
<u> </u>	BA8G4	SD-011-0006- 001	C3	1165	Percent Moisture	Sediment	4/12/2012	12:20	1	4 oz Glass Jar	4C	N
	BA8G5	SW-012-001	C2	1168	CLP TCL Volatiles	Surface Water	4/12/2012	12:35	3	40 ml VOA	HCI pH<2	N
	BA8G5	SW-012-001	C2	1169	CLP TCL Semivolatiles	Surface Water	4/12/2012	12:35	2	1 liter amber	4 C	N
n.	BA8G5	SW-012-001	C2	1170	CLP TCL Arodors	Surface Water	4/12/2012	12:35	2	1 liter ember	4 C	N

		SAMPLES TRANSFERRED FROM
Special Instructions:	*	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all whalips	Jell Petts	4/12/12	Fed 26	4/12/12	200						
				51		*					
			-				N .				

Page 5 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbillNo: 87417839 **CHAIN OF CUSTODY RECORD**

Site #: 02P9 Contact Name: Joe! Petty Contact Phone: 732-570-4943 No: 2-041212-184603-0009

Cooler #: 11 Lab: Liberty Analytical Corporation

Lab#	CLP Sample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8G6	SD-012-0006- 001	C2	1172	CLP TCL Semivolatiles	Sediment	4/12/2012	12:55	. 1	8 oz Glass Jar	4 C	N
	BA8G6	SD-012-0006- 001	C2	1173	CLP TCL Arodors	Sediment	4/12/2012	12:55	1	8 oz Giass Jar	4C	N
	BA8G6	SD-012-0006- 001	C2	1174	CLP TCL Volatiles	Sediment	4/12/2012	12:55	3	Encore	4 C	N
	BA8G6	SD-012-0006- 001	C2	1177	Percent Moisture	Sediment	4/12/2012	12:55	1	4 oz Glass Jar	4 C	N
	BA8G7	SW-013-001	E2	1180	CLP TCL Volatiles	Surface Water	4/12/2012	12:40	3	40 ml VOA	HCI pH<2	N
	BA8G7	SW-013-001	E2	1181	CLP TCL Semivolatiles	Surface Water	4/12/2012	12:40	2	1 liter amber	4 C	N
	BA8G7	SW-013-001	E2	1182	CLP TCL Aroclors	Surface Water	4/12/2012	12:40	2	1 liter amber	4 C	N
	BA8G8	SD-013-0006- 001	E2	1184	CLP TCL Semivolatiles	Sediment	4/12/2012	13:00	1	8 oz Glass Jar	4 C	N
	BA8G8	SD-013-0006- 001	E2	1185	CLP TCL Aradors	Sediment	4/12/2012	13:00	1	8 oz Glass Jar	4 C	N
	BA8G8	SD-013-0006- 001	E2	1186	CLP TCL Volatiles	Sediment	4/12/2012	13:00	3	Encore	4 C	N
	BA8G8	SD-013-0006- 001	E2	1189	Percent Moisture	Sediment	4/12/2012	13:00	1	4 oz Glass Jar	4 C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
allanations	all Botta	4/12/10	Fed &	4/6/12	2100	N .					
					8				9		

Page 6 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbiffNo: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation

Lab#	CLP 8ample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8G9	SD-014-0006- 001	E1	1191	CLP TCL Semivolatiles	Sediment	4/12/2012	15:00	1	8 oz Glass Jar	4 C	N
	BA8G9	SD-014-0006- 001	E1	1192	CLP TCL Arodors	Sediment	4/12/2012	15:00	1	8 oz Glass Jar	4 C	N
	BA8G9	SD-014-0006- 001	E1	1193	CLP TCL Volatiles	Sediment	4/12/2012	15:00	3	Encore	4 C	N
	BA8G9	SD-014-0006- 001	E1	1196	Percent Moisture	Sediment	4/12/2012	15:00	. 1	4 oz Glass Jar	4 C	N
	ВАВНО	SD-015-0006- 001	C1	1198	CLP TCL Semivolatiles	Sediment	4/12/2012	16:30	-1	8 oz Glass Jar	4 C	N
	BASHO	SD-015-0006- 001	C1	1199	CLP TCL Arodors	Sediment	4/12/2012	16:30	1	8 oz Glass Jar	4 C	N
	ВАВНО	SD-015-0006- 001	C1	1200	CLP TCL Volatiles	Sediment	4/12/2012	16:30	3	Encore	4 C	N
	BA8H0	SD-015-0006- 001	C1	1203	Percent Moisture	Sediment	4/12/2012	16:30	1	4 oz Glass Jar	4 C	N
	BA8H1	SD-016-0006- 001	D3	1205	CLP TCL Semivolatiles	Sediment	4/12/2012	14:55	1	8 oz Glass Jar	4 C	N
	BA8H1	SD-016-0006- 001	D3	1206	CLP TCL Arodora	Sediment	4/12/2012	14:55	1	8 oz Glass Jar	4 C	N
	BA8H1	SD-016-0006- 001	D3	1207	CLP TCL Volatiles	Sediment	4/12/2012	14:55	3	Encore	4 C	N

		v v	SAMPLES TRANSFERRED FROM
Special Instructions:	y-		CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all amples	Jul Petty	4/0/12	FldCex	4/13/10	2100						
The state of the s							•	ı			
				L 4							

Page 7 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbillNo: 87417839 **CHAIN OF CUSTODY RECORD**

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041212-184603-0009

Cooler #: 11 Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location .	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	D
	BA8H1	\$D-016-0006- 001	D3	1210	Percent Molsture	Sediment	4/12/2012	14:55	1	4 oz Glass Jar	4 C	N
	BA8H2	SD-017-0006- 001	D2	1212	CLP TCL Semivolatiles	Sediment	4/12/2012	15:55	1	8 oz Glass Jar	4 C	N
	BA8H2	SD-017-0006- 001	D2	1213	CLP TCL Arodors	Sediment	4/12/2012	15:55	1	8 oz Glass Jar	4 C	N
	BA8H2	SD-017-0006- 001	D2	1214	CLP TCL Volatiles	Sediment	4/12/2012	15:55	3	Encora	4 C	N
	BA8H2	SD-017-0006- 001	D2	1217	Percent Moisture	Sediment	4/12/2012	15:55	1	4 oz Glass Jar	4 C	N
	ВА8Н3	SD-018-0006- 001	D1	1219	CLP TCL Semivolatiles	Sediment	4/12/2012	16:40	1	8 oz Glass Jar	4 C	N
	вавнз	SD-018-0006- 001	D1	1220	CLP TCL Arodors	Sediment	4/12/2012	16:40	1	8 oz Glass Jar	4 C	N
	вавнз	SD-018-0006- 001	D1	1221	CLP TCL Volatiles	Sediment	4/12/2012	16:40	3	Encore	4 C	N
	вавнз	SD-018-0006- 001	D1	1224	Percent Moisture	Sediment	4/12/2012	16:40	1	4 oz Glass Jar	4C	N
	BA8H4	SW-014-001	E1	1227	CLP TCL Volatiles	Surface Water	4/12/2012	14:40	3	40 mi VOA	HCI pH<2	N
	BA8H4	SW-014-001	E1	1228	CLP TCL Semivolatiles	Surface Water	4/12/2012	14:40	2	1 liter amber	4 C	N

	V	SAMPLES TRANSFERRED FROM
Special instructions:		CHAIN OF CUSTODY#

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	wellety	4/12/13	Fader	4/12/12	200			N			
	,								,		
		ä									

Page 8 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbiliNo: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041212-184603-0009

Cooler #: 11 Lab: Liberty Analytical Corporation

Case	#:	42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8H4	SW-014-001	E1	1229	CLP TCL Aradors	Surface Water	4/12/2012	14:40	2	1 liter amber	4C	N
	ВА8Н5	8W-015-001	C1	1232	CLP TCL Volatiles .	Surface Water	4/12/2012	16:10	3	40 ml VOA	HCI pH<2	N
	BA8H5	SW-015-001	C1	1233	CLP TCL Semivolatiles	Surface Water	4/12/2012	16:10	2	1 liter amber	4C	N
	BASH5	SW-015-001	C1	1234	CLP TCL Aroclors	Surface Water	4/12/2012	16:10	2	1 liter amber	4C	N
	BA8H6	SW-016-001	D3	1237	CLP TCL Volatiles	Surface Water	4/12/2012	14:50	3	40 mi VOA	HCI pH<2	N
	BA8H6	SW-016-001	D3	1238	CLP TCL Semivolatiles	Surface Water	4/12/2012	14:50	2	1 liter amber	4.C	N
	BA8H6	SW-016-001	D3	1239	CLP TCL Aroclors	Surface Water	4/12/2012	14:50	2	1 liter amber	4 C	N
	BA8H7	SW-017-001	D2	1242	CLP TCL Volatiles	Surface Water	4/12/2012	15:45	3	40 ml VOA	HCI pH<2	N
2.5	ВА8Н7	SW-017-001	D2 ·	1243	CLP TCL Semivolatiles	Surface Water	4/12/2012	15:45	2	1 liter amber	4 C	N
	BA8H7	SW-017-001	D2	1244	CLP TCL Arcolors	Surface Water	4/12/2012	15:45	2	1 liter amber	4C	N
	BA8H8	SW-018-001	D1	1247	CLP TCL Volatiles	Surface Water	4/12/2012	16:30	3	40 mi VOA	HCI pH<2	N

	SAMPLES TRANSFERRED FROM
Special instructions:	CHAIN OF CUSTODY #
	38

items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all analysis	Juel Peter	MINIO	Fall	4/12/12	2100						
0 1107 3											
				•							

Page 9 of 10

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbiliNo: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8H8	SW-018-001	D1	. 1248	CLP TCL Semivolatiles	Surface Water	4/12/2012	16:30	2	1 liter amber	4 C	N
	BA8H8	SW-018-001	D1	1249	CLP TCL Aroclors	Surface Water	4/12/2012	16:30	2	1 liter amber	4 C	N
	BA8H9	SD-019-0006- 001	GSR-MID	1251	CLP TCL Semivolatiles	Sediment	4/12/2012	17:50	1	8 oz Glass Jar	,4 C	N
	ВА8Н9	SD-019-0006- 001	GSR-MID	1252	CLP TCL Arectors	Sediment	4/12/2012	17:50	1	8 oz Glass Jar	4 C	N
	вавн9	SD-019-0006- 001	GSR-MID	1253	CLP TCL Volatiles	Sediment	4/12/2012	17:50	3	Encore	4 C	N
	ВА8Н9	SD-019-0006- 001	GSR-MID	1256	Percent Moisture	Sediment	4/12/2012	17:50 .	1	4 oz Glass Jar	4 C	N
	BA8J0	SW-019-001	GSR-MID	1259	CLP TCL Volatiles	Surface Water	4/12/2012	17:30	3	40 ml VOA	HCI pH<2	N
	BA8J0	SW-019-001	GSR-MID	1260	CLP TCL Semivolatiles	Surface Water	4/12/2012	17:30	2	1 liter amber	4 C	N
	BA8J0	SW-019-001	GSR-MID	1261	CLP TCL Arodors	Surface Water	4/12/2012	17:30	2	1 liter amber	4 C	N
	BA8J1	PW-019-06-001	GSR-MID	1264	CLP TCL Volatiles	Pore Water	4/12/2012	17:40	3	40 ml VOA	HCI pH<2	N
	BA8J1	PW-019-06-001	GSR-MID	1265	CLP TCL Semivolatiles	Pore Water	4/12/2012	17:40	2	1 liter amber	4 C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	. Received by	Date	Time
Mangles	affetter	4/12/12	Fully	34606	2100	н	,				
ser a may as			The opening the same of the sa	7.12.18							1
			<u></u>			<u> </u>			<u> </u>	1	سيبل

USEPA

DateShipped: 4/12/2012 CarrierName: FedEx AirbillNo: 87417839

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041212-184603-0009

Cooler #: 11

Lab: Liberty Analytical Corporation

Lab#	CLP 8ample#	Sample #	Location	Tag	Analyses	· Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8J1	PW-019-06-001	GSR-MID	1266	CLP TCL Aroclors	Pore Water	4/12/2012	17:40	2	1 liter amber	4 C	N
											>	
14									-			
			-									
								-:	ļ			
									-		8.7	<u> </u>
		OI de										
	0	1 State of the sta										
-	18th											-

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all mayers	Jultary	4/12/12	Ted &	4/12/1	alod						
1 1 1 1 1			¥						•		
8.4								-	•		
						N.			T .		

	Sender's Copy
4a Express Package Service *** muntbooker.	Packages up to 150 lbs.
FedEx Priority Overnight Net business sporing * Friday signassa will be delivered on Monday writess BATURDAY believey is selected. FedEx Standard Overnight Heat business sharecom.* Batustay Delivery MOT wretholes, Standard Overnight Heat business of the selected.	FedEx First Overnight Entless what business morning defining to select locations."
FedEx 2Day Sector business day "Thurstay shared without the Gelevard on Microby without SATURGAY Delivery to selected. FedEx Express Saver Third bushess day," Seturday Bellevry NOT evaluate.	
4b Express Freight Service to continuous.	Packages over 150 lbs.
Forditx 1Day Freight C A L L 1.80 D Inter translation day of Federal shall be a C A L L 1.80 D Indian to distract of Manager private SPUADAY Today Project Backlet, No. Today in aduction.	.332.0887
FedEx 2Day Freight Second business day. "Executely phignosets will be delivered on Manufacture Will Day Online State State Will Day Delivery to solucted. FedEx 3Da 784 to basiness	y Freight Jaye Saturday Dalway NOT available.
5 Packaging *Doctord value State State.	
FedEx Envelope* FedEx Pek* FedEx Pek* Includes redisk threat Pek and FedEx Boox FedEx Boox	FedEx Other
6 Special Handling and Delivery Signature Options	
SATURDAY Defivery AUT wetlable for Fodic Standard Oversight, Fodic Express Sever, or Public Stay Freight.	<u>.</u> .
No Signature Required Product Signature Remained Statistics of Statistic	Indirect Signature If noon is website at recipients eddness, someon at a religioning eddness may sign for delivery. For coaldeated deliverates only. For applies.
Does this shipment contain dangerous goods? One has start be checked.	electrical comments custs and effects
No Per semental State of Contention Dry Ice	
Dispure Decimation. I rectinguist. Dispure pende finchaling dryling countries dripped in FedEs packaging or phonolina FedEs Departs Drop Box.	Cargo Aircraft Only
7 Payment Bill to:	
102356 103	redit Cerd Cest/Check
Total Peckages Total Weight Intal Declared Value	-1
That Bability is limited to SUM arrises you declare a Material William beautiful Missel. By using the Air agree to the tender conditions or dealback of the Airbill and in the current Fedit. Survice liable, backets that in the riddle.	FOP

USEPA

DateShipped: 4/13/2012 CarrierName: FedEx AirbillNo: 874178390191 CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041312-155136-0011

Cooler #: 6

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8J2	SD-020-0006- 001	B3	1268	CLP TCL Semivolatiles	Sediment	4/13/2012	09:30	1	8 oz Glass Jar	4C	N
	BA8J2	SD-020-0006- 001	B3	1269	CLP TCL Aroclors	Sediment	4/13/2012	09:30	2	8 oz Glass Jar	4 C	Υ .
	BA8J2	SD-020-0006- 001	83	1270	CLP TCL Volatiles	Sediment	4/13/2012	09:30	3	Encore	4 C	N
	BA8J2	SD-020-0006- 001	83	1273	Percent Molature	Sediment	4/13/2012	09:30	1	4 oz Glass Jar	4C	N
	BA8J3	SW-020-001	B3	1276	CLP TCL Volatiles	Surface Water	4/13/2012	08:30	-3	40 ml VOA	HCI pH<2	N
-	BA8J3	SW-020-001	83	1277	CLP TCL Semivolatiles	Surface Water	4/13/2012	08:30	2	1 liter amber	4C	N
	BASJ3	6W-020-001	В3	1278	CLP TCL Aroclors	Surface Water	4/13/2012	08:30	6	1 liter amber	4 C	Y
	BA8J4	PW-020-06-001	83	1281	CLP TCL Volatiles	Pore Water	4/13/2012	08:50	3	40 ml VOA	HCI pH<2	N
	BA8J4	PW-020-06-001	83	1282	CLP TCL Semivolatiles	Pore Water	4/13/2012	08:50	2	1 liter amber	4C	N
	BA8J4	PW-020-06-001	B3	1283	CLP TCL Arodors	Pore Water	4/13/2012	08:50	2	1 liter amber	4 C	N
	BA8J5	T8-041312	Trip Blank	1284	CLP TCL Volatiles	Delonized Water	4/13/2012	09:45	3	40 ml VOA	HCI pH<2	N

	SAMPLES TRANSFERRED FROM
Special instructions:	CHAIN OF CUSTODY #
	A
*	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all unalgos	Jullety	4/13/12	FENEY	4/13/12	1900				•		
			/								
								***			1.
							,				

Page 2 of 6

USEPA

DateShipped: 4/13/2012 CarrierName: FedEx AirbillNo: 874178390191 CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041312-155136-0011

Cooler #: 6

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses .	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/MS D
	BA8J6	RB-041312	Rinsate Blank	1287	CLP TCL Volatiles	Delonized Water	4/13/2012	11:15	3	40 mi VOA	HCI pH<2	N
	BA8J6	RB-041312	Rinsate Blank	1288	CLP TCL Semivolatiles	Delonized Water	4/13/2012	11:15	2	1 liter amber	4C	N
	BA8J6	RB-041312	Rinsate Blank	1289	CLP TCL Aroclors	Delonized Water	4/13/2012	11:15	2	1 liter amber	4C	N
	BA8J7	SW-021-001	A2	1292	CLP TCL Volatiles	Surface Water	4/13/2012	10:20	3	40 mi VOA	HCl pH<2	N
	BA8J7	SW-021-001	A2	1293	CLP TCL Semivolatiles	Surface Water	4/13/2012	10:20	2	1 liter amber	4 C	N
	BA8J7	SW-021-001	A2	1294	CLP TCL Aroclors	Surface Water	4/13/2012	10:20	2	1 liter amber	4 C	N
	BA8J8	SW-021-002	A2	1297	CLP TCL Volatiles	Surface Water	4/13/2012	10:20	3	40 ml VOA	HCI pH<2	N
	BA8J8	SW-021-002	A2	1298	CLP TCL Semivolatiles	Surface Water	4/13/2012	10:20	2	1 liter amber	4 C	N
	BA8J8	SW-021-002	A2	1299	CLP TCL Arodors	Surface Water	4/13/2012	10:20	2	1 liter amber	4 C	N
	BA8J9	PW-021-06-001	A2	1302	CLP TCL Volatiles	Pore Water	4/13/2012	10:45	3	40 mi VOA	HCI pH<2	N
***	BA8J9	PW-021-06-001	A2	1303	CLP TCL Semivolatiles	Pore Water	4/13/2012	10:45	2	1 liter amber	4C,	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#
<u>s</u>	

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all analyses	Julletty	4/13/12	Feder	4/13/12	1900			٠			
							N .				
ē.	-										

Page 3 of 5

USEPA

DateShipped: 4/13/2012 CarrierName: FedEx AirbifNo: 874178390191

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041312-155136-0011

Cooler #: 6

Lab: Liberty Analytical Corporation

Lab#	CLP Sample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8J9	PW-021-06-001	A2	1304	CLP TCL Aroclors	Pore Water	4/13/2012	10:45	2	1 liter amber	4 C	N
	BABKO	SD-021-0006- 001	A2	1306	CLP TCL Semivolatiles	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	BA8K0	SD-021-0006- 001	A2	1307	CLP TCL Arodors	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	8A8K0	SD-021-0006- 001	A2	1308	CLP TCL Volatiles	Sediment	4/13/2012	11:20	3	Encore	4C.	N
٥.	BA8K0	SD-021-0006- 001	A2	1311	Percent Moisture	Sediment	4/13/2012	11:20	1	16 oz Poly Bottle	4 C	N
	BA8K1	SD-021-0006- 002	A2	1313	CLP TCL Semivolatiles	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N .
	BA8K1	SD-021-0006- 002	A2	1314	CLP TCL Aradors	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	BA8K1	SD-021-0006- 002	A2	1315	CLP TCL Voialiles	Sediment	4/13/2012	11:20	3	Encore	4 C	N
	BA8K1	SD-021-0006- 002	A2	1316	Percent Moisture	Sediment	4/13/2012	11:20	1	4 oz Glass Jar	40	N
	BA8K2	SD-022-0006- 001	82	1318	CLP TCL Semivolatiles	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
N.	BA8K2	SD-022-0006- 001	B2	1319	CLP TCL Arodors	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N

		SAMPLES TRANSFERRED FROM
Special Instructions:	,	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jul Pety	4/13/12	Feder	4/13/12	900		2				
			"								
** Q = **	V:										

Page 4 of 5

USEPA

DateShipped: 4/13/2012 CarrierName: FedEx AirbillNo: 874178390191

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041312-155136-0011

Cooler#: 6

Lab: Liberty Analytical Corporation Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8K2	SD-022-0006- 001	B2	1320	CLP TCL Volatiles	Sediment	4/13/2012	11:20	3	Encore	4C	N
	BA8K2	SD-022-0006- 001	B2	1323	Percent Moisture	Sediment	4/13/2012	11:20	1	16 oz Poly Bottle	4C	N
	вавкз	SW-022-001	B2	1326	CLP TCL Volatiles	Surface Water	4/13/2012	10:50	. 3	40 ml VOA	HC! pH<2	N
	BA8K3	SW-022-001	B2	1327	CLP TCL Semivolatiles	Surface Water	4/13/2012	10:50	2	1 liter amber	4 C	N
	вавкз	SW-022-001	B2	1328	CLP TCL Aroclors	Surface Water	4/13/2012	10:50	2	1 liter amber	4C	N
	BABK4	SW-023-001	B1	1331	CLP TCL Volatiles	Surface Water	4/13/2012	14:20	3	40 ml VOA	HCI pH<2	N
	BA8K4	SW-023-001	B1	1332	CLP TCL Semivolatiles	Surface Water	4/13/2012	14:20	2	1 liter amber	4C	N
	BA8K4	SW-023-001	B1	1333	CLP TCL Aroclors	Surface Water	4/13/2012	14:20	2	1 liter amber	4 C	N
	BA8K5	SD-023-0006- 001	B1	1335	CLP TCL Semivolatiles	Sediment	4/13/2012	14:40	1	8 oz Glass Jar	4C	N
	BA8K5	SD-023-0006- 001	B1	1336	CLP TCL Aroclors	Sediment	4/13/2012	14:40	1	8 oz Glass Jar	4 C	N
	BA8K5	SD-023-0006- 001	B1	1337	CLP TCL Volatiles	Sediment	4/13/2012	14:40	3	Encore	4 C	N

		SAMPLES TRANSFERRED FROM
Special Instructions:	*	CHAIN OF CUSTODY #
	<u>'</u>	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jos Pety	4/13/12	Fed Ex	4/13/12	1900					(.0)	
								*			

USEPA

DateShipped: 4/13/2012 CarrierName: FedEx

AirbillNo: 874178390191

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-041312-155136-0011

Cooler #: 6

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8K5	SD-023-0006- 001	B1	1340	Percent Moleture	Sediment	ent 4/13/2012 14:40	14:40	1	16 oz Poly Bottle	4 C	N
	BA8K6	SD-024-0006- 001	BLA169	1342	CLP TCL Semivolatiles	Sediment	4/13/2012	14:30	1	8 oz Glass Jar	4 C	N
	BA8K6	SD-024-0006- 001	184 A 1 (5P)	1343	CLP TCL Aroclors	Sediment	4/13/2012	14:30	1	8 oz Glass Jar	4 C	N
	BA8K6	SD-024-0006- 001	184. A 1 60	1344	CLP TCL Volatiles	Sediment	4/13/2012	14:30	3	Encore	4 C	N
	BA8K6	SD-024-0006- 001	84 A1 68	1347	Percent Moisture	Sediment	4/13/2012	14:30	1	16 oz Poly Bottle	4 C	N
	BA8K7	SW-024-001	A1	1350	CLP TCL Volatiles	Surface Water	4/13/2012	14:15	3	40 ml VOA	HCI pH<2	N
	BA8K7	SW-024-001	A1	1351	CLP TCL Semivolatiles	Surface Water	4/13/2012	14:15	2	1 liter amber	4 C	N
	BA8K7	SW-024-001	A1	1352	CLP TCL Aroclors	Surface Water	4/13/2012	14:15	2	1 liter amber	4 C	N
											The second secon	Tirmen .
	ļ									·B is the evidenthalance identions		
1	101	My								· con the contract care		
	MIL						ļ					and the second
10	1	<u> </u>			<u> </u>		<u> </u>	<u> </u>	1	- 10 10 h	1	1

	¥	SAMPLES TRANSFERRED FROM
Special instructions:	×	CHAIN OF CUSTODY #
		6
		

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
allanalises	Jullatry	4/13/12	Fullx	4/13/10	1900						
						,			#P		
					-						

1			
	FECEX. US Airbill Factor 8741 7839 0191	2 020E	Sender's Cop
1	From Please print and press hard.	4a Express Package Service • To most locations.	Packages up to 150 lbs
	Deta 4/13/13 Sendar's FedEx ASCOUNT NUMBER ONLY	PedEx Priority Overnight Next business merring: Piday shipments will be delivered on Monday usiness SAURON Delivery is assected. Sauritay Delivery NOT evaluation.	FedEx First Overnight Earliest next lustress storning delivery to select locations.*
	Name Joe Petty Phone (732) 570-4943	FedEx 2Day Second business days "Thesebay shipmarts will be defined on blooday writes SSUERAR Orderoy's selected. FedEx Express Saver Item! Delivery Survey Scharley Delivery NOT everlabbe.	
Υ.,	company Weston Solutions, Inc.	4b Express Freight Service - h menthodism.	Packages over 150 lbs
	Address 1090 King Garages Post Ad Suite 201	FedEx 1Day Freight CALL 1.800.3 Mext buscless fige-" Fridey chigments will be delivered on Monday unlesses SNTURDNY FedEx IDay Freight Booking No. Delivery is selected.	32.0807
	CAN Edison Strain N.T ZIP 08837	FedEx 2Day Freight Coccod positives day: "Thereaftry shipments will be definered on Monotky united SULVERIAL Delinery is selected. Fred Ex 3Day Freight Third business day:	reight ** Saturday Delivery NOT evelable.
	CAY EUISUT) State (V.) ZIP (J. 8.5.7	5 Packaging - available train the train.	
2	Your Internal Billing Reference 20401 • 135 • Grand	FredEx Pek* Envelope* FedEx Pek* Includes FedEx and Pak and FedEx FedEx Large Path	FedEx Other
3		6 Special Handling and Delivery Signature Options	
	Name Bob Meierer Phone 919379-4100	SATURDAY Defivery - HOT wellable for FedEx Standard Overnight, FedEx Stores Sever, or FedEx 30 by Freight.	
	company Liberty Analytical Corporation	No Signature Required Pechage may be fit without Doctoors at recipients address detailed published details and the application of the published details and the published deta	Indirect Signature If no one is available at residently address, asmaone at a neighboring address may sign for defense, for residuated deliveries only. Fee applies
	Address 50) Madison Ave HOLD Weekday Felds to salve as We cannot delifier to P.D. boxes or P.D. ZIP codes, and the Code of the	Does this stripment contain dangerous goods? One bux must be checked. Voc.	
	HOLD Saturday freeExteston eathers Address Address Extingion, Available trilly for FreeExteston eathers FreeExteston eathers FreeExteston for FreeExteston Free	Ves Ves Shipper's Declaration Shipper's Declaration Intercepting. Supports operating dry load control to shipperd in Fedith packaging or plants of the property of the Control of the Con	ergo Aircreft Only
	1/0 77517	7 Payment Bill to:	
	City Cary State NC ZIP 27513	Sender Sender FedEx Acet. No. or Credit Card No. hebre. —	
			in Card Cash/Chec
		Rediskack Na. 402356103 Kotal Packages Total Meight Total Declared Value*	Bro. Date
		E A A A TO TO TO THE POST OF T	
	Learn (o paok likera (nosac iedek com/gackagnių).	to. 3	<u> </u>

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390180 CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-154804-0012

Cooler #: 3

Lab: Liberty Analytical Corporation

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MSIMS D
	BA8K8	SD-025-0006- 001	GSR-MID-2	1354	CLP TCL Semivolatiles	Sediment	4/16/2012	11:30	1	8 oz Glass Jar	4 C	N
	BASK8	8D-025-0006- 001	GSR-MID-2	1355	CLP TCL Arodore	Sediment	4/16/2012	11:30	1	8 oz Glass Jar	4C	N
	BA8K8	SD-025-0006- 001	GSR-MID-2	1356	CLP TCL Volatiles	Sediment	4/16/2012	11:30	3	Encore	4 C	N
	BA8K8	SD-025-0006- 001	GSR-MID-2	1359	Percent Moisture	Sediment	4/16/2012	11:30	1	16 oz Poly Bottie	4 C	N
	BA8K9	SW-025-001	GSR-MID-2	1362	CLP TCL Volatiles	Surface Water	4/16/2012	10:20	3	40 ml VOA	HCI pH<2	N
	ВАВКЭ	SW-025-001	GSR-MID-2	1363	CLP TCL Semivolatiles	Surface Water	4/16/2012	10:20	2	1 liter amber	4 C	N
1.	BABKS	SW-025-001	GSR-MID-2	1364	CLP TCL Arodors	Surface Water	4/16/2012	10:20	2	1 liter amber	4 C	N
e ee daleed	BABLO	PW-025-06-001	GSR-MID-2	1367	CLP TCL Volatiles	Pore Water	4/16/2012	10:45	3	40 ml VOA	HCI pH<2	N
	BASLO	PW-025-06-001	GSR-MID-2	1368	CLP TCL Semivolatiles	Pore Water	4/16/2012	10:45	2	1 liter amber	4 C	N
	BABLO	PW-025-06-001	GSR-MID-2	1369	CLP TCL Aroclors	Pore Water	4/16/2012	10:45	2	1 liter amber	4 C	N
	BASL1	PW-025-18-001	GSR-MID-2	1370	CLP TCL Volatiles	Pore Water	4/16/2012	11:20	3	40 ml VOA	HCI pH<2	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
allrangles	Jul Patry	4/16/12	Fad En	4/16/12	1830						
			No	¥							

Page 2 of 3

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390180 **CHAIN OF CUSTODY RECORD**

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-154604-0012

Cooler #: 3

Lab: Liberty Analytical Corporation

Lab#	CLP 8ample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8L2	TB-041612	Trip Blank	1371	CLP TCL Volatiles	Delonized Water	4/13/2012	11:00	3	40 ml VOA	HCI pH<2	N
	BA8L3	RB-041612	Rinsate Blank	1374	CLP TCL Volatiles	Delonized Water	4/16/2012	11:45	3	40 ml VOA	HCI pH<2	N
	BA8L3	RB-041612	Rinsate Blank	1375	CLP TCL Semivolatiles	Delonized Water	4/16/2012	11:45	2	1 liter amber	4 C	N
	BASL3	RB-041612	Rinsate Blank	1376	CLP TCL Aroclors	Delonized Water	4/16/2012	11:45	2	1 liter amber	4 C	N
	BASL4	SD-026-0006- 001	GSR-BKG-1	1378	CLP TCL Semivolatiles	Sediment	4/16/2012	13:40	1	8 oz Glass Jar	4 C	N
-les y de aplacetes	BA8L4	SD-026-0006- 001	GSR-BKG-1	1379	CLP TCL Aroctors	Sediment	4/16/2012	13:40	1	8 oz Glass Jar	4 C	N
	BASL4	SD-026-0006- 001	GSR-BKG-1	1380	CLP TCL Volatiles	Sediment	4/16/2012	13:40	3	Encore	4C	N
	BA8L4	SD-026-0006- 001	GSR-BKG-1	1383	Percent Molature	Sediment	4/16/2012	13:40	1	16 oz Poly Bottle	4C	N
	BA8L5	SD-027-0006- 001	GSR-BKG-2	1385	CLP TCL Semivolatiles	Sediment	4/16/2012	14:25	1	8 oz Glass Jar	4 C	N
	BA8L5	6D-027-0006- 001	GSR-BKG-2	1386	CLP TCL Aroclors	Sediment	4/16/2012	14:25	1	8 oz Glass Jar	4 C	N
	BA8L5	SD-027-0006- 001	GSR-BKG-2	1387	CLP TCL Volatiles	Sediment	4/16/2012	14:25	3	Encore	4C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #
4	*

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all analyses	Julletty	4/18/12	Fed Es	4/16/12	1830						

Page 3 of 3

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390180

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-154604-0012

Cooler #: 3

Lab: Liberty Analytical Corporation

CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS
BA8L5	SD-027-0006- 001	GSR-BKG-2	1390	Percent Molature	Sediment	4/16/2012	14:25	1	16 oz Poly Bottle	4 C	N
BA8L6	SW-026-001	GSR-BKG-1	1393	CLP TCL Volatiles	Surface Water	4/16/2012	13:25	3	40 ml VOA	HCI pH<2	N
BABL6	SW-026-001	GSR-BKG-1	1394	CLP TCL Semivolatiles	Surface Water	4/16/2012	13:25	2	1 liter amber	40	N
BABL6	SW-026-001	GSR-BKG-1	1395	CLP TCL Aroclors	Surface Water	4/16/2012	13:25	2	1 liter amber	4 C	N
BA8L7	SW-027-001	GSR-BKG-2	1398	CLP TCL Volatiles	Surface Water	4/16/2012	14:10	3	40 ml VOA	HCI pH<2	N
BASL7	SW-027-001	GSR-BKG-2	1399	CLP TCL Semivolatiles	Surface Water	4/16/2012	14:10	2	1 liter amber	4 C	N
BA8L7	SW-027-001	GSR-BKG-2	1400	CLP TCL Aroclors	Surface Water	4/18/2012	14:10	2	1 liter amber	4C	N
	-							+			
	<u> </u>			<u> </u>		ļ					
	-		_							15 1 1 15	13%
	the state of the s			<u> </u>				ļ <u>.</u>	75.53		
11/1/2		ň.					ļ	ļ			1.00
P.C.				1							122 -
	BABL6 BABL6 BABL6 BABL7 BABL7 BABL7	BA8L6 SD-027-0008- 001 BA8L6 SW-026-001 BA8L6 SW-026-001 BA8L6 SW-026-001 BA8L7 SW-027-001 BA8L7 SW-027-001	BA8L6 SW-026-001 GSR-BKG-1 BA8L6 SW-026-001 GSR-BKG-1 BA8L6 SW-026-001 GSR-BKG-1 BA8L6 SW-026-001 GSR-BKG-1 BA8L7 SW-027-001 GSR-BKG-2 BA8L7 SW-027-001 GSR-BKG-2 BA8L7 SW-027-001 GSR-BKG-2	BA8L6 SW-026-001 GSR-BKG-1 1393 BA8L6 SW-026-001 GSR-BKG-1 1393 BA8L6 SW-026-001 GSR-BKG-1 1394 BA8L6 SW-026-001 GSR-BKG-1 1395 BA8L7 SW-027-001 GSR-BKG-2 1398 BA8L7 SW-027-001 GSR-BKG-2 1399 BA8L7 SW-027-001 GSR-BKG-2 1400	BA8L5 SD-027-0006- 001 GSR-BKG-2 1390 Percent Molsture BA8L6 SW-026-001 GSR-BKG-1 1393 CLP TCL Volatiles BA8L6 SW-026-001 GSR-BKG-1 1394 CLP TCL Semivolatiles BA8L6 SW-026-001 GSR-BKG-1 1395 CLP TCL Aroclors BA8L7 SW-027-001 GSR-BKG-2 1398 CLP TCL Volatiles BA8L7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles BA8L7 SW-027-001 GSR-BKG-2 1400 CLP TCL Aroclors	BA8L6 SD-027-0008- 001 GSR-BKG-2 1390 Percent Moleture Sediment BA8L6 SW-026-001 GSR-BKG-1 1393 CLP TCL Volatiles Surface Water BA8L6 SW-026-001 GSR-BKG-1 1394 CLP TCL Semivolatiles Surface Water BA8L6 SW-026-001 GSR-BKG-1 1395 CLP TCL Aroclors Surface Water BA8L7 SW-027-001 GSR-BKG-2 1398 CLP TCL Volatiles Surface Water BA8L7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water BA8L7 SW-027-001 GSR-BKG-2 1400 CLP TCL Aroclors Surface Water	BABL6 SD-027-0008- 001 GSR-BKG-2 1390 Percent Molsture Sediment 4/16/2012 BABL6 SW-026-001 GSR-BKG-1 1393 CLP TCL Volatiles Surface Water 4/16/2012 BABL6 SW-026-001 GSR-BKG-1 1394 CLP TCL Semivolatiles Surface Water 4/16/2012 BABL6 SW-026-001 GSR-BKG-1 1395 CLP TCL Arcclora Surface Water 4/16/2012 BABL7 SW-027-001 GSR-BKG-2 1398 CLP TCL Volatiles Surface Water 4/16/2012 BABL7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water 4/16/2012 BABL7 SW-027-001 GSR-BKG-2 1400 CLP TCL Arcclora Surface Water 4/16/2012	Sample # SD-027-0008- GSR-BKG-2 1390 Percent Moleture Sediment 4/16/2012 14:25	BABL6 SW-026-001 GSR-BKG-1 1393 CLP TCL Volatiles Surface Water Water BABL6 SW-026-001 GSR-BKG-1 1394 CLP TCL Semivolatiles Surface Water Water BABL6 SW-026-001 GSR-BKG-1 1395 CLP TCL Aroclors Surface Water BABL7 SW-027-001 GSR-BKG-2 1398 CLP TCL Volatiles Surface Water BABL7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water BABL7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water BABL7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water Water BABL7 SW-027-001 GSR-BKG-2 1399 CLP TCL Semivolatiles Surface Water Water BABL7 SW-027-001 GSR-BKG-2 1400 CLP TCL Aroclors Surface Water Water Water BABL7 SW-027-001 GSR-BKG-2 1400 CLP TCL Aroclors Surface Water Water Water BABL7 SW-027-001 GSR-BKG-2 1400 CLP TCL Aroclors Surface Water Water Water Water Water Surface	Sample # SD-027-0008- GSR-BKG-2 1390 Percent Molsture Sediment 4/16/2012 14:26 1 16 oz Poly Bottle	Sample # Sample # Sediment 4/16/2012 14:26 1 16 oz Poly 6 1 16 oz Poly 6 1 16 16 16 16 16 16

Special Instructions:				SAMPLES TRANSFERRED FROM	
special files estates	Special Instructions:	20		CHAIN OF CUSTODY #	
					1,21

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all analyses	Jul Petry	4/16/12	TWEN	4/16/10	1830						
							5				

USEPA

Date Shipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #			Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D	
	MBA8L6	SW-026-001	GSR-BKG-1	1391	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/16/2012	13:25	1	1 L poly	HNO3 pH<2	N
	MBA8D3	RB-041212	Rinsate Blank	1000	CLP TAL Total Metals + Hg/ICP-AES	Deionized Water	4/12/2012	14:30	1	1 L poly	HNO3 pH<2	N
- 1	MBASD3	RB-041212	Rinsate Blank	1001	CLP Cyanide	Deionized Water	4/12/2012	14:30	1	1 L poly	NaOH pH>12	N
•	MBA8E5	SW-008-001	F1	1054	CLP TAL Total Metals + Hg/ICP-AE8	Surface Water	4/12/2012	09:00	1	1 L poly	HNO3 pH<2	N
	MBA8E5	SW-008-001	F1	1055	CLP Cyanide	Surface Water	4/12/2012	09:00	1	1 L poly	NaOH pH>12	N
	MBA8E6	SW-009-001	C4	1059	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	09:05	1	1 L poly	HNO3 pH<2	N
	MBA8E6	8W-009-001	C4	1060	CLP Cyanide	Surface Water	4/12/2012	09:05	1	1 L poly	NaOH pH>12	N
	MBA8E7	PW-009-06-001	C4 .	1084	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/12/2012	09:30	1	1 L poly	HNO3 pH<2	N
	MBA8E7	PW-009-06-001	C4	1065	CLP Cyanide	Pore Water	4/12/2012	09:30	1	1 L poly	NaOH pH>12	N
1)	MBA8F6	SD-008-0006- 001	F1	1117	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	10:00	, 1	8 oz Glass Jar	4C	N
	MBA8F7	SD-009-0006- 001	C4	1124	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	10:05	1	8 oz Glass Jar	4 C	N

	2	SAMPLES TRANSFERRED FROM
Special Instructions:	•	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples allanelyses	gullety	4/16/10	FROLEY	4/16/19	1830						

Page 2 of 8

USEPA

Date Shipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Teating Company

Lab#	CLP Sample #	nple#		Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	MBASF9	SW-010-001	E3	1132	CLP TAL Total Metals + HgACP-AES	Surface Water	4/12/2012	11:20	1	1 L poly	HNO3	N
	MBA8F9	SW-010-001	E3	1133	CLP Cyanide	Surface Water	4/12/2012	11:20	1	1 L poly	NaOH pH>12	N .
	MBA8GO	PW-010-06-001	E3	1137	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/12/2012	11:25	1	1 L poly	HNO3 pH<2	N
	MBA8GO	PW-010-06-001	E3 .	1138	CLP Cyanide	Pora Water	4/12/2012	11:25	1	1 L poly	NaOH pH>12	N
	MBA8G1	PW-010-18-001	E3	1142	CLP TAL Total Metals + Hg/ICP-AES	Pora Water	4/12/2012	11:55	1	1 L poly	HNO3	N
	MBA8G1	PW-010-18-001	E3	1143	CLP Cyanide	Pore Water	4/12/2012	11:55	1	1 L poly	NaOH pH>12	N
	MBA8G2	8D-010-0008- 001	E3	1147	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	40	N
	MBA8G3	SW-011-001	C3	1164	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	11:55	1	1 L poly	HNO3 pH<2	N
	MBA8G3	SW-011-001 .	C3	1156	CLP Cyanide	Surface Water	4/12/2012	11:55	1	1 L poly	NaOH pH>12	N .
	MBA8G4	SD-011-0006- 001	C3	1159	CLP TAL Total Metals + Hg + Cn/ICP-AE8	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	4C	N
	MBA8G5	6W-012-001	C2	1166	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	12:35	1	1 L poly	HNO3	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Rems/Reason	Relinquished by		Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Manageles	gulfely	4/16/12	Feel Ex	416/12	1830		3.0				
DE						ŀ	* * +				

Page 3 of 8

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbiliNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8G5	SW-012-001	C2	1167	CLP Cyanide	Surface Water	4/12/2012	12:35	1	1 L poly	NaOH pH>12	N
	MBA8G6	SD-012-0006- 001	C2	1171	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	12:55	1	8 oz Glass Jar	4 C	N
	MBA8G7	SW-013-001	E2	1178	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	12:40	1	1 L poly	HNO3 pH<2	N
	MBA8G7	SW-013-001	E2	1179	CLP Cyanide	Surface Water	4/12/2012	12:40	1	1 L poly	NaOH pH>12	N
	MBA8G8	SD-013-0006- 001	E2	1183	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	13:00	1	8 oz Glass Jar	4 C	N
	MBA8G9	SD-014-0008- 001	E1	1190	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	15:00	1	8 oz Glass Jar	4 C	N
	MBASHO	SD-015-0006- 001	C1	1197	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	16:30	1	8 oz Glass Jar	4 C	N
	MBA8H1	SD-016-0006- 001	D3	1204	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	14:65	1	8 oz Glass Jar	4 C	N
	MBA8H2	SD-017-0006- 001	D2	1211	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	15:55	1	8 oz Glass Jar	4 C	N
	МВАВНЗ	SD-018-0006- 001	D1	1218	CLP_TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	16:40	1	8 oz Glass Jar	4 C	N
	MBA8H4	SW-014-001	6 1	1225	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	14:40	1	1 L poly	HNO3 pH<2	N

	SAMPLES TRANSFERRED FROM
Special instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	gullety	4/16/12	FAL Ex	4/16/12	1830						
, and											
			7			u.	,				

Page 4 of 8

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS
	MBA8H4	SW-014-001	E1	1226	CLP Cyanide	Surface Water	4/12/2012	14:40	1	1 L poly	NaOH pH>12	N
	MBA8H5	SW-015-001	C1	1230	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	16:10	1	1 L poly	HNO3 pH<2	N
	MBA8H5	SW-015-001	C1	1231	CLP Cyanids	Surface Water	4/12/2012	16:10	1	1 L poly	NaOH pH>12	N
	MBA8H6	SW-016-001	03	1235	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	14:50	1	1 L poly	HNO3 pH<2	N
	MBA8H6	SW-016-001	D3	1236	CLP Cyanide	Surface Water	4/12/2012	14:50	1	1 L poly	NaOH pH>12	N.
	MBA8H7	SW-017-001	D2	1240	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	15:45	1	1 L poly	HNO3 pH<2	N
	MBA8H7	SW-017-001	D2	1241	CLP Cyanide	Surface Water	4/12/2012	15:45	1	1 L poly	NaOH pH>12	N .
	MBA8H8	SW-018-001	D1	1245	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	16:30	1	1 L poly	HNO3 pH<2	N ·
	MBA8H8	SW-018-001	D1	1248	CLP Cyanide	Surface Water	4/12/2012	16:30	1	1 L poly	NaOH pH>12	N
	MBA8H9	SD-019-0006- 001	GSR-MID-1	1250	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/12/2012	17:50	- 1	8 oz Glass Jar	4 C	N
	MBA8J0	SW-019-001	GSR-MID	1257	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/12/2012	17:30	1	1 L poly	HNO3 pH<2	N

2		SAMPLES TRANSFERRED FROM
Special instructions:		CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
allamples	Jeffetty	HIGID	JN Ex	4/16/0	1830			9 2	9	Ü.	
							Je.				
					2.5					*(*

Page 5 of 8

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7
Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8J0	SW-019-001	GSR-MID	1258	CLP Cyanide	Surface Water	4/12/2012	17:30	1	1 L poly	NaOH pH>12	N
	MBA8J1	PW-019-06-001	GSR-MID	1262	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/12/2012	17:40	1	1 L poly	HNO3 pH<2	N
	MBA8J1	PW-019-06-001	GSR-MID	1263	CLP Cyanide	Pore Water	4/12/2012	17:40	1	1 L poly	NaOH pH>12	N
	MBA8J2	SD-020-0006- 001	B3	1267	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/13/2012	09:30	2	8 oz Glass Jar	4 C	Y
	MBA8J3	SW-020-001	B3	1274	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/13/2012	08:30	3	1 L poly	HNO3 pH<2	Y
	MBA8J3	SW-020-001	B3	1275	CLP Cyanide	Surface Water	4/13/2012	08:30	3	1 L poly	NaOH pH>12	Y
	MBA8J4	PW-020-06-001	B3	1279	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/13/2012	08:50	1	1 L poly	HNO3 pH<2	N
	MBA8J4	PW-020-06-001	83	1280	CLP Cyanide	Pore Water	4/13/2012	08:50	1	1 L poly	NaOH pH>12	N
	MBA8J6	RB-041312	Rinsate Blank	1285	CLP TAL Total Metals + Hg/ICP-AES	Delonized Water	4/13/2012	11:15	1	1 L poly	HNO3 pH<2	N
	MBA8J6	RB-041312	Rinsate Blank	Rinsate Blank 1286 CLP Cyanide		Delonized Water	4/13/2012	11:15	1	1 L poly	NaOH pH>12	N
	MBA8J7	SW-021-001	A2	1290	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/13/2012	10:20	1	1 L poly	HNO3 pH<2	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Justilly	4/16/10	Feeler	4/10/17	1830		A				M
									•		

Page 6 of 8

USEPA

DateShipped; 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217 CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP 8ample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Bample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8J7	SW-021-001	A2	1294	CLP Cyanide	Surface Water	4/13/2012	10:20	1	1 L poly	NaOH pH>12	N
	MBA8J8	8W-021-002	A2	1295	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/13/2012	10:20	1	1 L poly	HNO3 pH<2	N
	MBABJ8	SW-021-002	A2	1296	CLP Cyanide	Surface Water	4/13/2012	10:20	1	1 L poly	NaOH pH>12	N
	MBA8J9	PW-021-06-001	A2	1300	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/13/2012	10:45	1	1 L poly	HNO3 pH<2	N
	MBA8J9	PW-021-06-001	A2	1301	CLP Cyanide	Pore Water	4/13/2012	10:45	1	1 L poly	NaOH pH>12	N
	MBABKO	SD-021-0006- 001	A2	1305	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
- 4	MBA8K1	SD-021-0006- 002	N2	1312	CLP TAL Total Metals + Hg + On/ICP-AES	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	MBA8K2	SD-022-0006- 001	B2	1317	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	MBA8K3	6W-022-001	B2	1324	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/13/2012	10:50	1	1 L poly	HNO3 pH<2	N
	MBA8K3	SW-022-001	B2	1325	CLP Cyanide	Surface Water	4/13/2012	10:50	1	1 L poly	NaOH pH>12	N
-	MBA8K4 SW-023-001 B1 1329 CLP TAL Total Metals + Hg/ICP-AES			Surface Water	4/13/2012	14:20	1	1 L poly	HNO3 pH<2	N		

The state of the s	The state of the s	SAMPLES TRANSFERRED FROM
Special instructions:		CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Myamples	Jullety	4/10/10	Fad Es	4/6/10	183c						
							•				
						*					

Page 7 of 8

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbillNo: 874178390217 **CHAIN OF CUSTODY RECORD**

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA8K4	SW-023-001	B1	1330	CLP Cyanide	Surface Water	4/13/2012	14:20	1	1 L poly	NaOH pH>12	N
	MBA8K5	SD-023-0006- 001	Bt	1334	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/13/2012	14:40	1	8 oz Glass Jar	4 C	N
	MBA8K6	SD-024-0006- 001	A1	1341	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/13/2012	14:30	. 1	8 oz Glass Jar	4C	N
N	MBA8K7	SW-024-001	A1	1348	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/13/2012	14:15	1	1 L poly	HNO3 pH<2	N
	MBA8K7	SW-024-001	A1	1349	CLP Cyanide	Surface Water	4/13/2012	14:15	1	1 L poly	NaOH pH>12	N
	MBA8K8	SD-025-0008- 001	GSR-MID-2	1353	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/16/2012	11:30	1	8 oz Glass Jar	4 C	N
	MBA8K9	SW-025-001	GSR-MID-2	1360	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/16/2012	10:20	1	1 L poly	HNO3 pH<2	N
	MBA8K9	SW-025-001	GSR-MID-2	1361	GLP Cyanide	Surface Water	4/16/2012	10:20	1	1 L poly	NaOH pH>12	N
	MBA8LO	PW-025-06-001	GSR-MID-2	1365	CLP TAL Total Metals + Hg/ICP-AES	Pore Water	4/16/2012	10:45	1	1 L poly	HNO3 pH<2	N
	MBA8LO	PW-025-06-001	GSR-MID-2	1366	CLP Cyanide	Pore Water	4/16/2012	10:45	1	1 L poly	NaOH pH>12	N
	MBA8L3	RB-041612	Rinsate Blank	1372	CLP TAL Total Metals + Hg/ICP-AES	Deionized Water	4/16/2012	11:45	1	1 L poly	HNO3 pH<2	N

		24		SAMPLES TRANSFERRED FROM
Special Instructions:				CHAIN OF CUSTODY #
	12			

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples allanalisas	Junety	4/16/12	Ful En	4/10/10	1830						
							8			-	

Page 8 of 8

USEPA

DateShipped: 4/16/2012 CarrierName: FedEx AirbiliNo: 874178390217

CHAIN OF CUSTODY RECORD

Site #: 02P9 Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-183651-0008

Cooler #: 7

Lab: Bonner Analytical Testing Company

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	MBA\$L3	RB-041612	Rinsate Blank	1373	CLP Cyanide	Delonized Water	4/16/2012	11:45	1	1 L poly	NaOH pH>12	N
	MBASL4	SD-026-0006- 001	GSR-BKG-1	1377	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/16/2012	13:40	1	8 oz Glass Jar	4 C	N
	MBA8L6	SD-027-0006- 001	GSR-BKG-2	1384	CLP TAL Total Metals + Hg + Cn/ICP-AES	Sediment	4/16/2012	14:25	1	8 oz Glass Jar	4 C	N
	MBASL6	SW-026-001	GSR-BKG-1	1392	CLP Cyanide	Surface Water	4/16/2012	13:25	1	1 L poly	NaOH pH>12	N
	MBA8L7	SW-027-001	GSR-BKG-2	1396	CLP TAL Total Metals + Hg/ICP-AES	Surface Water	4/16/2012	14:10	1	1 L poly	HNO3 pH<2	N
	MBASL7	SW-027-001	GSR-BKG-2	1397	CLP Cyanide	Surface Water	4/16/2012	14:10	1	1 L poly	NaOH pH>12	N
-												
		A S										<u></u>
		v/s	,									
1111	PM	ty_										
for the	- J	1										

		SAMPLES TRANSFERRED FROM
Special Instructions:	•	CHAIN OF CUSTODY #
		(4)

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all simples	Julletes	4/18/10	Fld En	4/16/12	1830						

1	FecEx. US Airbill France 8741 7839 01480	Sender's Copy
1	Sender's Fedex Account Number 40913566169UNT NUMBER ONLY Sender's Joel Petry Phone (7321570-4943)	4a Express Package Service Tedex Priority Overnight Next business arosings "friday contacts, when to state the contact of t
	company Weston Solutions, Inc.	FedEx 2Day Scored blacked day of Thurnday Scored blacked day of Bounday Scored SAURDAY Delivery is selected. 4b Express Freight Service FedEx 1Day Freight Med business days Riday delivery will be delivered on behavior unless will be delivered on behavior unless SRUMDAY FedEx (DeyFreight Dockton No.
54 S	Address 1090 King Georges Post Hd Suite 201 Day Edison State NJ ZP 08837	FedEx ZDay Freight Second business day.** Templet Second business day.** Templet Second business day.** Second bus
3	Your Internal Billing Reference 20401-135-0004-5233 To Recipient's Bob Melecer Phone 919379-4100	Envelope* Facilitation (See Annual Control of Control o
	company Liberty Analytical Corporation HOLD Westday Address 501 Madison Ave Hold Westday Fig. 100 Hold Westday Fig. 100 Hold Hold Westday Fig. 100 Hold Hold Hold Hold Hold Hold Hold Hold	No Signature Required Package may be the Webs. Somewhat delivery. Five applica. Does this shipment contain dangerous goods? Does this shipment contain dangerous goods?
	We cannot define to P.O. Brose & P.O. ZIP Codin. Address Address Use this life for the HULD location address or for continuation of your physical societies. City Cary Statis NC ZIP 27513	No Ses anached Disput Octavation Dry Ice Separate goods (Packaged to Declaration Contropared to Dry Ice Bagarran goods (Packaged to Declaration Declaration Contropared to Dry Ice Bagarran goods (Packaged to Declaration
		Sender Sender Recipient Third Party Credit Card Cash/Check Recipient Sender Sen
	Shipson the go acquaine tide (out of a collection)	Our Salability is limited to STD and Story year selectived a Stephen value. See head for death, Byrusing the Additi you appare to the service considere or the back of this Additi and in the custrest Feeler. Service Golde, including firms that limit our scaling. Rev. Data 2/10 + part 6/155281 - G0/1554-2018 Feeler PRINTED BN U.S.A. SRY
	ecEx. US Airbill 8 8741 7839 0217	Sender's Copy
1	From Please print and press hard. Date 4/6/13 Sender's FedEx Account Number 4/6/6/13 Sender's FedEx Account Number 4/6/6/6	4a Express Package Service *Ta meet houseloom. Factor Priority Overnight Next believes contage *Telephone on Monte of the Company of the Com
/	Express Number C1711 1 C111 From Please print and press hard.	4a Express Package Service *Ta most locations. Fed Ex Priority Overnight (hard before a first order) of the first of the
/	From Piesse prior and press hard. Date 4 16 13 Sender's FedEx Account Number USE ID: 3 SEEE X 60: 20 NT NUMBER ONLY Sender's Toel Petry Phone (732) 570-4943	### Express Package Service
2 3	From Piesse print and press hard. Date 4/6/12 Sender's FedEx Account Number 4/6/12 Sender's FedEx Account Number 4/6/12 Prione (732) 570-4943 Company Weston Solutions, Inc. Address 1090 King Georges Post 198 Suite 201 Date 1500 State NJ ZIP 08937 Your Internal Billing Reference 20401-135-0004-5833	### FedEx Priority Overnight FedEx Priority Overnight State Stat
_	From Please print and press hard. Date 4/16/12 Sender's FedEx Account Number 460 DE DESCRETA COMMINER ONLY Sender's FedEx Account Number 460 DE DESCRETA COMMINER ONLY Sender's FedEx Account Number 460 DE DESCRETA COMMINER ONLY Sender's FedEx Account Number 460 DE DESCRETA COMMINER ONLY Sender's FedEx Account Number 460 DE DESCRETA COMMINER ONLY Sender's FedEx Account Number 4732 1570-4943 Company Weston Solutions, Inc. Address 1090 King Georges Past 100 Suite 201 Dev Edison State NJ ZIP 08937 Voter Internal Billing Reference 20401-135-0004-5833 To Recipient's Chris Bonner Analytical Testing Commany Company Bonner Analytical Testing Commany HOLD Weekdayy Federal Comminer Solutions of Testing Comm	### Facks pass up to 150 lbs. ### Facks pass pass up to 150 lbs. ### Facks pass up to 150 l
_	From Please print and press hard. Date 4/16/12 Sender's FedEx Account Number 460 DE 955 Ext 400 SINT NUMBER ONLY Sender's FedEx Account Number 460 DE 955 Ext 400 SINT NUMBER ONLY Sender's FedEx Account Number 460 DE 955 Ext 400 SINT NUMBER ONLY Sender's FedEx Account Number 460 DE 955 Ext 400 SINT NUMBER ONLY Sender's FedEx Account Number 460 DE 955 Ext 400 SINT NUMBER ONLY Company Western Solutions, Inc. Address 1090 King Georges Past 8d Suite 201 Day Edison State NJ ZIP 08937 YOUR Internal Billing Reference 20401-135-000 4-5833 The cipient's Chais Bonner Phone 1601 1264-2854 Company Bonner Analytical Testing Company HOLD Westerney HOLD Westerney HOLD Westerney	### Express Package Service ### Emest housines. ### FedEx Priority Overnight Next business defected on Microsory afformation will be defected on Microsory and Standary Defects Developed Standary Defects Standary Defects Standary Defects Developed Standary Defects Standary Defects Developed Standary Defects Standary Defects Developed De
_	From Please print and press hard. Date 4/16/12 Sender's FedEx Account Number 460 Dec 950 Ext 160 30 NT NUMBER ONLY Sender's FedEx Account Number 460 Dec 950 Ext 160 30 NT NUMBER ONLY Sender's FedEx Account Number 460 Dec 950 NT NUMBER ONLY Sender's FedEx Account Number 460 Dec 950 NT NUMBER ONLY Sender's FedEx Account Number 460 Dec 950 NT NUMBER ONLY Sender's FedEx Account Number 470 Dec 950 NT NUMBER ONLY Sender's FedEx Account Number 460 Dec 950 NT NUMBER ONLY Sender's FedEx Account Number 470 NT Numbe	### Express Package Service ### Emest boundary ### Express Package Service ### Emest boundary ### Edex Standard Overnight Next business describes another; Fedex Standary Destinations Fedex Standary Fedex Standary Destinations Fedex Destinations

Page 1 of 4

USEPA

DateShipped: 4/16/2012 CarrierName: Hand Delivery

AirbiliNo: NA

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041312-184715-0010

Cooler #: 2

Lab: DESA Case #: 42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time		Container	Preservati ve	M8/MS D
	BA8F6	SD-008-0006- 001	F1	1121	Total Organic Carbon	Sediment	4/12/2012	10:00	1	8 oz Glass Jar	4C	N
	BA8F6	SD-008-0006- 001	F1	1122	Grain Size	Sediment	4/12/2012	10:00	1	16 oz Poły Bottle	4C	N
	BA8F7	SD-009-0006- 001	C4	1128	Total Organic Carbon	Sediment	4/12/2012	10:05	1	8 oz Glass Jar	4 C	N
	BA8F7	SD-009-0006- 001	C4	1129	Grain Size	Sediment	4/12/2012	10:05	1	16 oz Poly Bottle	4 C	N
14	BA8G2	SD-010-0006- 001	E3	1151	Total Organic Carbon	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	4C	N
	BA8G2	SD-010-0006- 001	E3	1152	Grain Size	Sediment	4/12/2012	12:20	1	16 oz Poly Bottle	4 C	N
	BA8G4	SD-011-0006- 001	C3	1163	Total Organic Carbon	Sediment	4/12/2012	12:20	1	8 oz Glass Jar	4C	N
	BA8G4	SD-011-0006- 001	C3	1164	Grain Size	Sediment	4/12/2012	12:20	1	16 oz Poly Bottle	4 C	N
	BA8G6	SD-012-0006- 001	C2	1175	Total Organic Carbon	Sediment	4/12/2012	12:55	1	8 oz Glass Jar	4 C	N
	BA8G6	SD-012-0006- 001	C2	1176	Grain Size	Sediment	4/12/2012	12:55	1	16 oz Poly Bottle	4 C	N
·	BA8G8	SD-013-0006- 001	E2	1187	Total Organic Carbon	Sediment	4/12/2012	13:00	1	8 oz Glass Jar	4 C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jul Petry	4/16/12			**						
, , ,											
				i i				111			

Page 2 of 4

USEPA

DateShipped: 4/16/2012 CarrierName: Hand Delivery

AirbiilNo: NA

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041312-184715-0010

Cooler #: 2 Lab: DESA

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8G8	SD-013-0006- 001	E2	1188	Grain Size	Sediment	4/12/2012	13:00	1	16 oz Poly Bottle	4 C	N
	BA8G9	SD-014-0006- 001	E1	1194	Total Organic Carbon	Sediment	4/12/2012	15:00	1	8 oz Giess Jar	4 C	N
	BA8G9	SD-014-0006- 001	E1	1195	Grain Size	Sediment	4/12/2012	15:00	1	16 oz Poly Bottle	4C	N
	BASHO	SD-015-0006- 001	C1	1201	Total Organic Carbon	Sediment	4/12/2012	16:30	1	8 oz Glass Jar	4 C	N
	BASHO	SD-015-0006- 001	C1	1202	Grain Size	Sediment	4/12/2012	16:30	:1	16 oz Poly Bottle	4 C	N
	BA8H1	SD-016-0006- 001	D3	1208	Total Organic Carbon	Sediment	4/12/2012	14:55	1	8 oz Glass Jar	4C	N.
	BA8H1	SD-016-0006- 001	D3	1209	Grain Size	Sediment	4/12/2012	14:55	1	16 oz Poly Bottle	4 C	Ñ
	BA8H2	SD-017-0006- 001	D2	1215	Total Organic Carbon	Sediment	4/12/2012	15:55	1	8 oz Glass Jar	4 C	N
	BA8H2	SD-017-0006- 001	D2	1216	Grain Size	Sediment	4/12/2012	15:55	1	16 oz Poly Bottle	4 C	N
	ВА8Н3	SD-018-0006- 001	D1	1222	Total Organic Carbon	Sediment	4/12/2012	16:40	1	8 oz Glass Jar	4 C	N
uri	ВА8Н3	SD-018-0006- 001	· D1	1223	Grain Size	Sediment	4/12/2012	16:40	1	16 oz Poly Bottle	4 C	N

	,		SAMPLES TRANSFERRED FROM
Special Instructions:		42	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	mel Peter	4/16/10									
						9					
									·		

Page 3 of 4

USEPA

DateShipped: 4/16/2012 CarrierName: Hand Delivery

AirbiliNo: NA

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041312-184715-0010

Cooler #: 2 Leb: DESA Case #: 42434

Lab#	CLP Sample #	Sample#	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	ВА8Н9	SD-019-0006- 001	GSR-MID	1254	Total Organic Carbon	Sediment	4/12/2012	17:50	1	8 oz Giass Jar	4 C	N
	8A8H9	8D-019-0006- 001	GSR-MID	1255	Grain Size	Sediment	4/12/2012	17:50	1	16 oz Poly Bottle	4 C	N
	BA8J2	SD-020-0006- 001	83	1271	Total Organic Carbon	Sediment	4/13/2012	09:30	1	8 oz Glass Jar	4 C	N
	BA8J2	\$D-020-0006- 001	83	1272	Grain Size	Sediment	4/13/2012	09:30	1	16 oz Poly Bottie	4C	N
	BASKO	SD-021-0006- 001	A2	1309	Total Organic Carbon	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	BASKO	SD-021-0006- 001	A2	1310	Grain Size	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4 C	N
	BA8K2	SD-022-0006- 001	B2	1321	Total Organic Carbon	Sediment	4/13/2012	11:20	1	8 oz Giass Jar	4 C	N
	BA8K2	SD-022-0006- 001	B2	1322	Grain Size	Sediment	4/13/2012	11:20	1	8 oz Glass Jar	4C	N
1	BA8K5	SD-023-0006- 001	81	1338	Total Organic Carbon	Sediment	4/13/2012	14:40	1	8 oz Glass Jar	4 C	N
************	BA8K5	SD-023-0006- 001	81	1339	Grain Size	Sediment	4/13/2012	14:40	1	8 oz Glass Jar	4 C	N
	BA8K6	SD-024-0006- 001	81	1345	Total Organic Carbon	Sediment	4/13/2012	14:30	1	8 oz Glass Jar	4C	N

1 1			SAMPLES TRANSFERRED FROM	
Special Instructions:			CHAIN OF CUSTODY #	
	2	 		

Items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	Jullety	4/16/112									
			9						*		h
				٠							

Page 4 of 4

USEPA

DateShipped: 4/16/2012 CarrierName: Hand Delivery

AirbillNo: NA

CHAIN OF CUSTODY RECORD

Site #: 02P9
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-041312-184715-0010

Cooler #: 2

Lab: DESA

Lab#	CLP 8ample#	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	M8/M8 D
	BA8K6	SD-024-0006- 001	B1	1346	Grain Size	Sediment	4/13/2012	14:30	1	8 oz Glass Jar	4 C	N
				_								
1												
	2 11	My										
=				_								
	7	. 1							ļ			

4	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Resson	Relinquished By	Date	Received by	Date	Time
all sumples	Jul Petz	41610					//		e e e e e e e e e e e e e e e e e e e		
		¥									
				,							V
							,				

Page 1 of 1

USEPA

DateShipped: 4/17/2012 CarrierName: Hand Delivery

AirbiliNo: NA

CHAIN OF CUSTODY RECORD

Site #: 02P9

Contact Name: Joel Petty Contact Phone: 732-570-4943 No: 2-041612-154709-0013

Cooler #: 1

Lab: DESA Case #: '42434

Lab#	CLP Sample #	Sample #	Location	Tag	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Preservati ve	MS/MS D
	BA8K8	SD-025-0006- 001	GSR-MID-2	1357	Total Organic Carbon	Sediment	4/16/2012	11:30	1	8 oz Glass Jar	4 C	N
	BA8K8	SD-025-0006- 001	GSR-MID-2	1358	Grain Size	Sediment	4/16/2012	11:30	1	8 oz Glass Jar	4 C	N
	BA8L4	SD-026-0006- 001	GSR-BKG-1	1381	Total Organic Carbon	Sediment	4/16/2012	13:40	1	8 oz Glass Jar	4 C	N
	BA8L4	SD-026-0006- 001	GSR-BKG-1	1382	Grain Size	Sediment	4/16/2012	13:40	1	8 oz Glass Jar	4 C	N
	BA8L5	SD-027-0006- 001	GSR-BKG-2	1388	Total Organic Carbon	Sediment	4/16/2012	14:25	1	8 oz Glass Jar	4 C	N
	BA8L5	SD-027-0006- 001	GSR-BKG-2	1389	Grain Size	Sediment	4/16/2012	14:25	1	8 oz Glass Jar	4 C	N
							*					-
	1001	Vig			*							
1	110				4							
7												

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Repeived by) Date Tim	e items/Reason	Relinquished By	Date	Received by	Date	Time
all samples all analyses	Jul Pars	4/17/15	The state of the s	4/17/12/10:	20					
auanays	July	7.70	1							
-										

Temp = 8.90 ow 102 4/17/12

ATTACHMENT D

Removal Assessment Validated Data Tables

Table 1 Validated Sediment Sample Analytical Results Table (TCL VOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SD-001-0006-001	SD-001-0006-002*	SD-002-0006-001	SD-003-0006-001	SD-004-0006-001	SD-005-0006-001	SD-006-0006-001	SD-007-0006-001	SD-008-0006-001	SD-009-0006-001	SD-010-0006-001	SD-011-0006-001	SD-012-0006-001	SD-013-0006-001	SD-014-0006-001	SD-015-0006-001
CLP#	BA8D7	BA8D8	BA8E9	BA8F1	BA8F2	BA8F3	BA8F4	BA8F5	BA8F6	BA8F7	BA8G2	BA8G4	BA8G6	BA8G8	BA8G9	BA8H0
Sample Date	04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor	1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg
TCL VOCs			_							_	_					
1,1,1-Trichloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	8.5 J	8.4 U	5.6 U	280 J	100	0.83 J
1,1,2,2-Tetrachloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,1,2-Trichloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,1-Dichloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	17 J	17 U	15 U	14 U	18 U	8.8 J	8.4 U	5.6 U	31 J	3 J	5.3 U
1,1-Dichloroethene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,2,3-Trichlorobenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 UJ	18 U	39 UJ	8.4 UJ	5.6 U	40 UJ	5.9 UJ	5.3 UJ
1,2,4-Trichlorobenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 UJ	18 U	39 UJ	8.4 UJ	5.6 U	40 UJ	5.9 UJ	5.3 UJ
1,2-Dibromo-3-chloropropane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,2-Dibromoethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,2-Dichlorobenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 UJ	18 U	39 UJ	8.4 UJ	5.6 U	40 UJ	5.9 UJ	5.3 UJ
1,2-Dichloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,2-Dichloropropane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
1,3-Dichlorobenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U 15 U	14 UJ	18 U 18 U	39 UJ 39 UJ	8.4 UJ	5.6 U	40 UJ	5.9 UJ	5.3 UJ
1,4-Dichlorobenzene	33 UJ 660 R	33 UJ	35 UJ 710 UJ	48 UJ 960 UJ	6.9 U 140 U	35 UJ 690 UJ	17 U 330 UJ	290 UJ	14 UJ 290 U	370 UJ	770 UJ	8.4 UJ 170 U	5.6 U 110 U	40 UJ	5.9 UJ	5.3 UJ 110 U
1,4-Dioxane		660 R					33 U							810 UJ	120 U	
2-Butanone	66 UJ 66 UJ	66 UJ 66 UJ	71 UJ 71 UJ	96 UJ 96 UJ	14 U 14 U	69 UJ 69 UJ	33 U	29 U 29 U	29 U 29 U	37 U 37 U	77 UJ 77 UJ	17 U 17 U	11 U 11 U	81 UJ 81 UJ	12 U 12 U	11 U 11 U
2-Hexanone 4-Methyl-2-Pentanone	66 UJ	66 UJ	71 UJ	96 UJ	14 U	69 UJ	33 U	29 U	29 U	37 U	77 UJ	17 U	11 U	81 UJ	12 U	11 U
,	66 UJ	66 UJ	71 UJ	200 UJ	14 U	230 UJ	33 U	29 U	29 U	37 U	190 UJ	17 U	11 U	81 UJ	12 U	11 U
Acetone	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Bromochloromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Bromodichloromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Bromoform	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Bromomethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Carbon disulfide	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Carbon Tetrachloride	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Chlorobenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 UJ	18 U	39 UJ	8.4 UJ	5.6 U	40 UJ	5.9 UJ	5.3 UJ
Chloroethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Chloroform	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Chloromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
cis-1,2-Dichloroethene	33 UJ	33 UJ	35 UJ	4.4 J	6.9 U	66 J	17 U	15 U	14 U	18 U	8.4 J	8.4 U	1.5 J	80 J	0.81 J	1.3 J
cis-1,3-Dichloropropene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Cyclohexane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Dibromochloromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Dichlorodifluoromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Ethylbenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Isopropylbenzene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
m,p-Xylene*	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Methyl Acetate	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Methylcyclohexane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Methylene Chloride	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Metyl ter-Butyl ether	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
o-Xylene*	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Styrene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Tetrachloroethene	4.1 J	5.8 J	35 UJ	48 UJ	1.6 J	30 J	3.8 J	1.7 J	2.5 J	5.4 J	76 J	21	11	1200 J	930	410 J
Toluene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
trans-1,2-Dichloroethene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
trans-1,3-Dichloropropene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Trichloroethene	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	47 J	17 U	15 U	1.3 J	18 U	19 J	0.95 J	1.7 J	140 J	54	13
Trichlorofluoromethane	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Vinyl Chloride	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
										_						

- Note:

 * Field duplicate of SD-001-0006-001

 ** Field duplicate of SD-021-0006-001

 All data contained within the table has been validated and is reported in micrograms per kilograms (µg/Kg).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 TCL VOCs = Target Compound List Volatile Organic Compounds

Table 1 Validated Sediment Sample Analytical Results Table (TCL VOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SD-016-0006-001	SD-017-0006-001	SD-018-0006-001	SD-019-0006-001	SD-020-0006-001	SD-021-0006-001	SD-021-0006-002**	SD-022-0006-001	SD-023-0006-001	SD-024-0006-001	SD-025-0006-001	SD-026-0006-001	SD-027-0006-001
CLP#	BA8H1	BA8H2	BA8H3	BA8H9	BA8J2	BA8K0	BA8K1	BA8K2	BA8K5	BA8K6	BA8K8	BA8L4	BA8L5
Sample Date	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location	D3	D2	D1	GSR-MID-1	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg						
TCL VOCs									-				
1,1,1-Trichloroethane	25 UJ	280	3000 J	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,1,2,2-Tetrachloroethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,1,2-Trichloroethane	25 UJ	0.54 J	6.2 J	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
1,1-Dichloroethane	25 UJ	14	180 J	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,1-Dichloroethene	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,2,3-Trichlorobenzene	25 UJ	6.6 UJ	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 UJ	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
1,2,4-Trichlorobenzene	25 UJ	6.6 UJ	5.4 J	6 U	17 UJ	4.6 U	5.4 U	6.9 UJ	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
1,2-Dibromo-3-chloropropane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,2-Dibromoethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,2-Dichlorobenzene	25 UJ	6.6 UJ	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 UJ	6.4 UJ	16 U	14 J	32 UJ	22 UJ
1,2-Dichloroethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,2-Dichloropropane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
1,3-Dichlorobenzene	25 UJ	6.6 UJ	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 UJ	6.4 UJ	16 U	29 J	32 UJ	22 UJ
1,4-Dichlorobenzene	25 UJ 500 UJ	6.6 UJ 130 U	31 UJ	6 U 120 U	17 UJ 330 U	4.6 U 93 U	5.4 U	6.9 UJ 140 U	6.4 UJ 130 U	16 U 320 U	22 J 580 UJ	32 UJ 640 UJ	22 UJ 440 UJ
1,4-Dioxane			630 UJ				110 U						
2-Butanone	50 UJ 50 UJ	13 U 13 U	63 UJ 63 UJ	12 U 12 U	33 U 33 U	9.3 U 9.3 U	11 U 11 U	14 U 14 U	13 U 13 U	32 U 32 U	58 UJ 58 UJ	64 UJ 64 UJ	44 UJ 44 UJ
2-Hexanone	50 UJ	13 U	63 UJ	12 U	33 U	9.3 U	11 U	14 U	13 U	32 U	58 UJ	64 UJ	44 UJ
4-Methyl-2-Pentanone	280 UJ	13 U	190 UJ	12 U	150 U	9.3 U	11 U	14 U	13 U	81 U	220 UJ	64 UJ	44 UJ
Acetone Benzene	25 UJ	6.6 U	31 UJ	6 U	150 U	9.3 U 4.6 U	5.4 U	6.9 U	6.4 U	16 U	220 UJ 29 UJ	32 UJ	22 UJ
Bromochloromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Bromodichloromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Bromoform	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Bromomethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Carbon disulfide	2.2 J	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	1.3 J	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Carbon Tetrachloride	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Chlorobenzene	25 UJ	6.6 UJ	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 UJ	2.2 J	16 U	42 J	32 UJ	22 UJ
Chloroethane	42 J	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Chloroform	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Chloromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
cis-1,2-Dichloroethene	3.6 J	1.1 J	230 J	6 U	17 U	4.6 U	5.4 U	6.9 U	3.9 J	16 U	29 UJ	32 UJ	22 UJ
cis-1,3-Dichloropropene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Cyclohexane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Dibromochloromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Dichlorodifluoromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Ethylbenzene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Isopropylbenzene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	17 J	32 UJ	22 UJ
m,p-Xylene*	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Methyl Acetate	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Methylcyclohexane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Methylene Chloride	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Metyl ter-Butyl ether	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
o-Xylene*	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Styrene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Tetrachloroethene	2.4 J	6000	11000 J	2.2 J	17 UJ	4.6 U	5.4 U	6.9 U	7.2 J	16 U	29 UJ	32 UJ	22 UJ
Toluene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
trans-1,2-Dichloroethene	25 UJ	6.6 U	3.6 J	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
trans-1,3-Dichloropropene	25 UJ	6.6 U	31 UJ	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.4 UJ	16 U	29 UJ	32 UJ	22 UJ
Trichloroethene	2.1 J	91	1000 J	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.3 J	16 U	29 UJ	32 UJ	22 UJ
Trichlorofluoromethane	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Vinyl Chloride	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ

- Note:

 * Field duplicate of SD-001-0006-001

 ** Field duplicate of SD-021-0006-001

 All data contained within the table has been validated and is reported in micrograms per kilograms (µg/Kg).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 TCL VOCs = Target Compound List Volatile Organic Compounds

Table 2 Validated Sediment Sample Analytical Results Table (TCL SVOCs) Matlack, Inc. Site April 9 through 16, 2012

	T	I am	I am	I am	T ==	C=	a=	T	I am	I am		I am all assistant	T 07 012 000 001		T == -11	Tanasa
RST 2 Sample ID CLP #	SD-001-0006-001 BA8D7	SD-001-0006-002* BA8D8	BA8E9	SD-003-0006-001 BA8F1	SD-004-0006-001 BA8F2	SD-005-0006-001 BA8F3	SD-006-0006-001 BA8F4	SD-007-0006-001 BA8F5	SD-008-0006-001 BA8F6	SD-009-0006-001 BA8F7	BA8G2	SD-011-0006-001 BA8G4	SD-012-0006-001 BA8G6	SD-013-0006-001 BA8G8	SD-014-0006-001 BA8G9	SD-015-0006-001 BA8H0
Sample Date	04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	С3	C2	E2	E1	C1
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor	1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units TCL SVOCs	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg
1,1'-Biphenyl	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
1,2,4,5-Tetrachlorobenzene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,2'-Oxybis(1-chloropropane)	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,3,4,6-Tetrachlorophenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,4,5-Trichlorophenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,4,6-Trichlorophenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,4-Dichlorophenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2,4-Dimethylphenol 2,4-Dinitrophenol	650 UJ 1300 UJ	640 UJ 1200 UJ	680 UJ 1300 UJ	980 UJ 1900 UJ	230 U 450 U	730 UJ 1400 UJ	400 U 770 U	410 U 800 U	350 U 680 U	420 U 820 U	760 UJ 1500 UJ	250 U 490 U	220 U 420 U	910 UJ 1800 UJ	210 U 400 U	210 U 410 U
2.4-Dinitrophenol 2.4-Dinitrotoluene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 UJ	420 UJ	760 UJ	250 UJ	220 UJ	910 UJ	210 UJ	210 UJ
2,6-Dinitrotoluene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2-Chloronaphthalene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2-Chlorophenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2-Methylnaphthalene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2-Methylphenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
2-Nitrophanol	1300 UJ 650 UJ	1200 UJ 640 UJ	1300 UJ 680 UJ	1900 UJ 980 UJ	450 U 230 U	1400 UJ 730 UJ	770 U 400 U	800 U 410 U	680 U 350 U	820 U 420 U	1500 UJ 760 UJ	490 U 250 U	420 U 220 U	1800 UJ 910 UJ	400 U 210 U	410 U 210 U
2-Nitrophenol 3,3'-Dichlorobenzidine	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
3-Nitroaniline	1300 UJ	1200 UJ	1300 UJ	1900 UJ	450 U	1400 UJ	770 U	800 U	680 U	820 U	1500 UJ	490 U	420 U	1800 UJ	400 U	410 U
4,6-Dinitro-2-methylphenol	1300 UJ	1200 UJ	1300 UJ	1900 UJ	450 U	1400 UJ	770 U	800 U	680 U	820 U	1500 UJ	490 U	420 U	1800 UJ	400 U	410 U
4-Bromophenyl-phenylether	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
4-Chloro-3-methylphenol	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
4-Chloroaniline	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
4-Chlorophenyl-phenylether	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
4-Methylphenol 4-Nitroaniline	1300 UJ	1200 UJ	1300 UJ	1900 UJ	450 U	1400 UJ	770 U	800 U	680 U	820 U	1500 UJ	490 U	420 U	1800 UJ	400 U	410 U
4-Nitrophenol	1300 UJ	1200 UJ	1300 UJ	1900 UJ	450 U	1400 UJ	770 U	800 U	680 U	820 U	1500 UJ	490 U	420 U	1800 UJ	400 U	410 U
Acenaphthene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Acenaphthylene	650 UJ	640 UJ	160 J	980 UJ	71 J	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Acetophenone	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	110 J	520 J	250 U	220 U	910 UJ	210 U	210 U
Anthracene	650 UJ	640 UJ	230 J	980 UJ	160 J	730 UJ	400 U	410 U	350 U	89 J	140 J	250 U	220 U	910 UJ	210 U	210 U
Atrazine Benzaldehyde	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
Benzo(a)anthracene	370 J	300 J	1200 J	600 J	760	730 UJ	400 U	410 U	350 U	480	820 J	250 U	220 U	910 UJ	210 U	210 U
Benzo(a)pyrene	460 J	370 J	1400 J	690 J	750	730 UJ	400 U	410 U	350 U	480	910 J	250 U	220 U	910 UJ	210 U	210 U
Benzo(b)fluoranthene	600 J	470 J	1700 J	870 J	790	730 UJ	400 U	410 U	350 U	620	1300 J	250 U	220 U	910 UJ	210 U	210 U
Benzo(g,h,I)perylene	350 J	270 J	910 J	480 J	440	730 UJ	400 U	410 U	350 U	320 J	640 J	250 U	220 U	910 UJ	210 U	210 U
Benzo(k)fluoranthene	230 J	240 J	700 J	340 J	450	730 UJ	400 U	410 U	350 U	280 J	510 J	250 U	220 U	910 UJ	210 U	210 U
Bis(2-chloroethoxy)methane	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U 250 U	220 U 220 U	910 UJ	210 U	210 U
Bis(2-Chloroethyl)ether Bis(2-ethylhexyl)phthalate	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
Butylbenzylphthalate	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Caprolactam	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Carbazole	650 UJ	640 UJ	680 UJ	980 UJ	72 J	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Chrysene	490 J	400 J	1700 J	830 J	810	730 UJ	400 U	410 U	350 U	640	1100 J	250 U	220 U	910 UJ	210 U	210 U
Dibenzo(a,h)anthracene	650 UJ	640 UJ	260 J	980 UJ	130 J	730 UJ	400 U	410 U	350 U	95 J	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Dibenzofuran	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Diethylphthalate Dimethylphthalate	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
Di-n-butylphthalate	650 UJ	640 UJ	150 J	980 UJ	87 J	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Di-n-octylphthalate	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Fluoranthene	970 J	750 J	2800 J	1500 J	1800	140 J	71 J	410 U	350 U	1100	2000 J	250 U	220 U	910 UJ	210 U	210 U
Fluorene	650 UJ	640 UJ	290 J	980 UJ	160 J	730 UJ	400 U	410 U	350 U	100 J	150 J	250 U	220 U	910 UJ	210 U	210 U
Hexachlorobenzene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Hexachlorobutadiene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Hexachlorocyclopentadiene Hexachloroethane	650 UJ 650 UJ	640 UJ 640 UJ	680 UJ 680 UJ	980 UJ 980 UJ	230 U 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	420 U 420 U	760 UJ 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
Indeno(1,2,3-cd)pyrene	340 J	290 J	960 J	980 UJ 490 J	470	730 UJ 730 UJ	400 U	410 U 410 U	350 U	360 J	680 J	250 U	220 U	910 UJ 910 UJ	210 U	210 U
Isophorone	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Naphthalene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Nitrobenzene	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
N-Nitroso-di-n-propylamine	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
N-Nitrosodiphenylamine	650 UJ	640 UJ	680 UJ	980 UJ	230 U	730 UJ	400 U	410 U	350 U	420 U	760 UJ	250 U	220 U	910 UJ	210 U	210 U
Pentachlorophenol	1300 UJ	1200 UJ	1300 UJ	1900 UJ	450 U	1400 UJ	770 U	800 U	680 U	820 U	1500 UJ	490 U	420 U	1800 UJ	400 U	410 U
Phenanthrene Phenol	460 J 650 UJ	400 J 640 UJ	2400 J	1200 J 980 UJ	1400 230 U	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	840 420 U	1500 J 760 UJ	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
Phenoi Pyrene	800 J	640 UJ 650 J	680 UJ 2900 J	980 UJ 1 500 J	1500	730 UJ 730 UJ	400 U 400 U	410 U 410 U	350 U 350 U	1100	760 UJ 1800 J	250 U 250 U	220 U 220 U	910 UJ 910 UJ	210 U 210 U	210 U 210 U
i jidho	500 J	050 J	470U J	1200 J	1500	150 U J	700 U	710 0	550 U	1100	1000 J	250 U	220 U	710 UJ	210 U	210 0

Note:

* Field duplicate of SD-001-0006-001

** Field duplicate of SD-021-0006-001

All data contained within the table has been validated and is reported in micrograms per kilograms (µg/Kg).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

CLP = Contract Laboratory Program

TCL SVOCs = Target Compound List Semivolatile Organic Compounds

Table 2 Validated Sediment Sample Analytical Results Table (TCL SVOCs) Matlack, Inc. Site April 9 through 16, 2012

	[am al : and : and		I a=		CT 020 000 000	~~ ~~ ~~ ~~ ~~		I am and and and		I am and a sad			~~
RST 2 Sample ID CLP #	SD-016-0006-001 BA8H1	SD-017-0006-001 BA8H2	SD-018-0006-001 BA8H3	BA8H9	SD-020-0006-001 BA8J2	SD-021-0006-001 BA8K0	SD-021-0006-002** BA8K1	BA8K2	BA8K5	SD-024-0006-001 BA8K6	SD-025-0006-001 BA8K8	SD-026-0006-001 BA8L4	SD-027-0006-001 BA8L5
Sample Date	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location	D3	D2	D1	GSR-MID-1	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg
TCL SVOCs 1,1'-Biphenyl	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
1,2,4,5-Tetrachlorobenzene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2,2'-Oxybis(1-chloropropane)	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2,3,4,6-Tetrachlorophenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2,4,5-Trichlorophenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2,4,6-Trichlorophenol 2,4-Dichlorophenol	650 UJ 650 UJ	200 U 200 U	580 UJ 580 UJ	210 U 210 U	360 U 360 U	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ 650 UJ	690 UJ 690 UJ	570 UJ 570 UJ
2,4-Dimethylphenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2,4-Dinitrophenol	1300 UJ	390 U	1100 UJ	400 U	690 U	380 U	380 U	490 U	430 UJ	910 U	1300 UJ	1300 UJ	1100 UJ
2,4-Dinitrotoluene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 UJ	650 UJ	690 UJ	570 UJ
2,6-Dinitrotoluene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2-Chloronaphthalene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
2-Chlorophenol	650 UJ 650 UJ	200 U 200 U	580 UJ 580 UJ	210 U 210 U	360 U 120 J	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ 650 UJ	690 UJ 690 UJ	570 UJ 570 UJ
2-Methylnaphthalene 2-Methylphenol	650 UJ	200 U 200 U	580 UJ 580 UJ	210 U 210 U	360 U	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ	690 UJ	570 UJ 570 UJ
2-Nitroaniline	1300 UJ	390 U	1100 UJ	400 U	690 U	380 U	380 U	490 U	430 U	910 U	1300 UJ	1300 UJ	1100 UJ
2-Nitrophenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
3,3'-Dichlorobenzidine	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 UJ	650 UJ	690 UJ	570 UJ
3-Nitroaniline	1300 UJ	390 U	1100 UJ	400 U	690 U	380 U	380 U	490 U	430 U	910 U	1300 UJ	1300 UJ	1100 UJ
4,6-Dinitro-2-methylphenol 4-Bromophenyl-phenylether	1300 UJ 650 UJ	390 U 200 U	1100 UJ 580 UJ	400 U 210 U	690 U 360 U	380 U 190 U	380 U 200 U	490 U 250 U	430 U 220 U	910 U 470 U	1300 UJ 650 UJ	1300 UJ 690 UJ	1100 UJ 570 UJ
4-Chloro-3-methylphenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
4-Chloroaniline	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 UJ	650 UJ	690 UJ	570 UJ
4-Chlorophenyl-phenylether	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
4-Methylphenol	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
4-Nitroaniline	1300 UJ	390 U	1100 UJ	400 U	690 U 690 U	380 U	380 U	490 U	430 U	910 U	1300 UJ	1300 UJ 1300 UJ	1100 UJ
4-Nitrophenol Acenaphthene	1300 UJ 650 UJ	390 U 200 U	1100 UJ 580 UJ	400 U 210 U	170 J	380 U 190 U	380 U 200 U	490 U 250 U	430 U 220 U	910 U 470 U	1300 UJ 650 UJ	690 UJ	1100 UJ 570 UJ
Acenaphthylene	650 UJ	200 U	580 UJ	210 U	250 J	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Acetophenone	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Anthracene	650 UJ	200 U	580 UJ	210 U	500	190 U	200 U	250 U	220 U	470 U	130 J	690 UJ	570 UJ
Atrazine	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Benzaldehyde	650 UJ 750 J	200 U 200 U	580 UJ 580 UJ	210 U 210	84 J 2800	190 U 190 UJ	200 U 200 UJ	250 U 250 UJ	250 220 U	470 U 470 U	650 UJ 550 J	690 UJ 280 J	570 UJ 110 J
Benzo(a)anthracene Benzo(a)pyrene	860 J	200 U	580 UJ	220	1800	190 UJ	200 U	250 U	220 U	470 U	580 J	380 J	570 UJ
Benzo(b)fluoranthene	1200 J	200 U	580 UJ	250	2900	190 U	200 U	250 U	220 U	470 U	690 J	490 J	570 UJ
Benzo(g,h,I)perylene	620 J	200 U	580 UJ	130 J	1300	190 U	200 U	250 U	220 U	470 U	210 J	210 J	570 UJ
Benzo(k)fluoranthene	400 J	200 U	580 UJ	120 J	950	190 U	200 U	250 U	220 U	470 U	260 J	210 J	570 UJ
Bis(2-chloroethoxy)methane	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Bis(2-Chloroethyl)ether Bis(2-ethylhexyl)phthalate	650 UJ 650 UJ	200 U 200 U	580 UJ 580 UJ	210 U 210 U	360 U 170 J	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ 650 UJ	690 UJ 690 UJ	570 UJ 570 UJ
Butylbenzylphthalate	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Caprolactam	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Carbazole	650 UJ	200 U	580 UJ	210 U	380	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Chrysene	980 J	200 U	580 UJ	260	3300	190 UJ	200 UJ	250 UJ	220 U	89 J	810 J	470 J	140 J
Dibenzo(a,h)anthracene Dibenzofuran	160 J 650 UJ	200 U 200 U	580 UJ 580 UJ	42 J 210 U	400 360 U	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ 650 UJ	690 UJ 690 UJ	570 UJ 570 UJ
Diethylphthalate	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Dimethylphthalate	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Di-n-butylphthalate	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Di-n-octylphthalate	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Fluoranthene Fluorene	2000 J 650 UJ	200 U 200 U	580 UJ 580 UJ	500 210 U	5300 800	35 J 190 U	58 J 200 U	250 UJ 250 U	220 U 220 U	130 J 470 U	1100 J 190 J	780 J 690 UJ	130 J 570 UJ
Hexachlorobenzene	650 UJ	200 U 200 U	580 UJ 580 UJ	210 U	360 U	190 U 190 U	200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ	690 UJ	570 UJ 570 UJ
Hexachlorobutadiene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Hexachlorocyclopentadiene	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 UJ	650 UJ	690 UJ	570 UJ
Hexachloroethane	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Indeno(1,2,3-cd)pyrene	660 J	200 U	580 UJ	130 J	1500	190 U	200 U	250 U	220 U	470 U	360 J	270 J	570 UJ
Isophorone Naphthalene	650 UJ 650 UJ	200 U 200 U	580 UJ 580 UJ	210 U 210 U	360 U 180 J	190 U 190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U 470 U	650 UJ 650 UJ	690 UJ 690 UJ	570 UJ 570 UJ
Naphthalene Nitrobenzene	650 UJ	200 U	580 UJ 580 UJ	210 U 210 U	360 U	190 U	200 U 200 U	250 U 250 U	220 U 220 U	470 U	650 UJ	690 UJ	570 UJ 570 UJ
N-Nitroso-di-n-propylamine	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
N-Nitrosodiphenylamine	650 UJ	200 U	580 UJ	210 U	360 U	190 U	200 U	250 U	220 U	470 U	650 UJ	690 UJ	570 UJ
Pentachlorophenol	1300 UJ	390 U	1100 UJ	400 U	690 U	380 U	380 U	490 U	430 UJ	910 U	1300 UJ	1300 UJ	1100 UJ
Phenanthrene	1200 J	200 U	580 UJ	330	4500	190 U	200 U	250 U	220 U	100 J	1100 J	520 J	570 UJ
Phenol Pyrene	650 UJ 1700 J	200 U 200 U	580 UJ 580 UJ	210 U 430	360 U 6600	190 U 190 UJ	200 U 200 UJ	250 U 250 UJ	220 U 220 U	470 U 470 U	650 UJ 1600 J	690 UJ 900 J	570 UJ 570 UJ
Pyrene	1/00 J	200 U	200 UJ	430	0000	170 UJ	200 UJ	250 UJ	220 U	470 U	1000 J	700 J	370 UJ

Note:

* Field duplicate of SD-001-0006-001

** Field duplicate of SD-021-0006-001

All data contained within the table has been validated and is reported in micrograms per kilograms (μg/Kg).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

CLP = Contract Laboratory Program

TCL SVOCs = Target Compound List Semivolatile Organic Compounds

Table 3 Validated Sediment Sample Analytical Results Table (TCL PCBs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SD-001-0006-001	SD-001-0006-002*	SD-002-0006-001	SD-003-0006-001	SD-004-0006-001	SD-005-0006-001	SD-006-0006-001	SD-007-0006-001	SD-008-0006-001	SD-009-0006-001	SD-010-0006-001	SD-011-0006-001	SD-012-0006-001	SD-013-0006-001	SD-014-0006-001	SD-015-0006-001
CLP#	BA8D7	BA8D8	BA8E9	BA8F1	BA8F2	BA8F3	BA8F4	BA8F5	BA8F6	BA8F7	BA8G2	BA8G4	BA8G6	BA8G8	BA8G9	BA8H0
Sample Date	04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor	1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg
TCL PCBs																
Aroclor-1016	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1221	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1232	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1242	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1248	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1254	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1260	37 J	46 J	54 J	190 UJ	45 U	43 J	16 J	15 J	68 U	30 J	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1262	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U
Aroclor-1268	130 UJ	120 UJ	130 UJ	190 UJ	45 U	140 UJ	77 U	80 U	68 U	82 U	150 UJ	49 U	42 UJ	180 UJ	40 U	41 U

RST 2 Sample ID	SD-016-0006-001	SD-017-0006-001	SD-018-0006-001	SD-019-0006-001	SD-020-0006-001	SD-021-0006-001	SD-021-0006-002**	SD-022-0006-001	SD-023-0006-001	SD-024-0006-001	SD-025-0006-001	SD-026-0006-001	SD-027-0006-001
CLP#	BA8H1	BA8H2	BA8H3	BA8H9	BA8J2	BA8K0	BA8K1	BA8K2	BA8K5	BA8K6	BA8K8	BA8L4	BA8L5
Sample Date	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location	D3	D2	D1	GSR-MID-1	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg	μg/Kg						
TCL PCBs													
Aroclor-1016	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1221	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1232	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1242	130 UJ	39 U	110 UJ	40 U	47 J	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1248	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1254	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1260	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1262	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ
Aroclor-1268	130 UJ	39 U	110 UJ	40 U	69 U	38 U	38 U	49 U	43 U	91 U	120 UJ	130 UJ	110 UJ

*Field duplicate of SD-001-0006-001

** Field duplicate of SD-021-0006-001

All data contained within the table has been validated and is reported in micrograms per kilograms (µg/Kg).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

CLP = Contract Laboratory Program

TCL PCBs = Target Compound List Polychlorinated Biphenyls

Table 4 Validated Sediment Sample Analytical Results Table (TAL Metals and Cyanide) Matlack, Inc. Site April 9 through 16, 2012

nam • a vn	GT 004 000 C 004	GD 004 0004 004	GD 000 0005 001	GD 003 0005 004	GT 004 0005 004	GD 00 - 000 6 004	GT 005 0005 004	GD 005 0005 001	GD 000 000 001	GT 000 000 5 001	GD 040 0005 004	GD 044 0005 004	GD 044 0005 004	GD 042 000 004	GD 044 0005 004	GD 04 5 000 5 004
RST 2 Sample ID	SD-001-0006-001	SD-001-0006-002*	SD-002-0006-001	SD-003-0006-001	SD-004-0006-001	SD-005-0006-001	SD-006-0006-001	SD-007-0006-001	SD-008-0006-001	SD-009-0006-001	SD-010-0006-001	SD-011-0006-001	SD-012-0006-001	SD-013-0006-001	SD-014-0006-001	SD-015-0006-001
CLP#	MBA8D7	MBA8D8	MBA8E9	MBA8F1	MBA8F2	MBA8F3	MBA8F4	MBA8F5	MBA8F6	MBA8F7	MBA8G2	MBA8G4	MBA8G6	MBA8G8	MBA8G9	MBA8H0
Sample Date	04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor	1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TAL Metals and Cyanide																
Aluminum	36200 J	40200 J	50400 J	45500 J	4970	15200 J	7070	14200 J	10100	14100 J	38400 J	743	236	16200 J	874	594
Antimony	6 UJ	17.9 UJ	18.8 UJ	6 UJ	8.2 UJ	6 UJ	9.4 UJ	14.7 UJ	11.4 UJ	13.5 UJ	6 UJ	8.6 UJ	7.3 UJ	6 UJ	7.7 UJ	7.4 UJ
Arsenic	27.7 J	27.4 J	33.1 J	36.4 J	8.4	8.8 J	3.7	7.1 J	4.9	11 J	63.1 J	0.44 J	1.2 UJ	10.8 J	0.81 J	1.2 UJ
Barium	316 J	346 J	493 J	479 J	55.4	155 J	39	75 J	59.4	161 J	526 J	28.8 U	58.8	365 J	25.7 U	60.1
Beryllium	2 J	2 J	5.5 J	5 J	0.9	3.1 J	0.78 U	1.2 U	0.95 U	1.3 J	5.1 J	0.026 J	0.61 U	4.4 J	0.64 U	0.62 U
Cadmium	2.2 J	2 J	3.9 J	3.6 J	0.21 J	1.8 J	0.078 J	0.13 J	0.087 J	0.83 J	3.4 J	0.14 J	0.096 J	3.9 J	0.1 J	0.069 J
Calcium	3810 J	4230 J	3080 J	3610 J	1080	4140 J	683 J	1160 J	1140	1550 J	2850 J	296 J	181 J	3920 J	53.9 J	47.6 J
Chromium	59.4 J	64 J	44.8 J	42 J	12.1	12.6 J	5.6	10.7 J	8.5	12.4 J	42.1 J	0.63 J	1.2 U	11.4 J	6.2	1.3
Cobalt	22.7 J	23.2 J	26.1 J	27 J	4.1 J	28.2 J	2 J	3.2 J	2.1 J	17.5 J	30.6 J	7.2 U	6.1 U	109 J	21.9	6.2 U
Copper	36.3 J	39 J	33.4 J	33.1 J	2.8 J	15.6 J	5.5	11.8 J	7.8	11.7 J	34.4 J	1.3 J	0.29 J	20.3 J	1.4 J	0.21 J
Iron	45100 J	49700 J	31400 J	41500 J	14000	6880 J	3180	5820 J	4200	12400 J	71700 J	351	393	9450 J	887	372
Lead	72.2 J	78.2 J	118 J	94.8 J	22.5	82.6 J	33	69.2 J	52.8	48.1 J	104 J	13.2	3.8	126 J	6.6	2.8
Magnesium	5040 J	5540 J	3250 J	3310 J	686 U	1320 J	785 U	1230 U	952 U	890 J	2270 J	67.6 J	22.8 J	1140 J	41.6 J	18.8 J
Manganese	1610 J	1750 J	690 J	1020 J	521	449 J	22	39.4 J	28.5	2430 J	4630 J	1510	3770	23900 J	2800	3690
Nickel	37.6 J	39.3 J	37.3 J	33.8 J	3.5 J	25.4 J	5.5 J	10.5 J	7.3 J	11.2 J	29 J	0.87 J	0.65 J	25 J	1.7 J	0.47 J
Potassium	3450 J	3860 J	2210 J	2210 J	686 U	715 J	785 U	1230 U	952 U	1130 U	1570 J	719 U	605 U	555 J	642 U	616 U
Selenium	3.5 U	10.4 U	0.72 J	3.5 U	4.8 U	1.7 J	0.29 J	0.48 J	6.7 U	1.5 J	3.5 U	1.1 J	2.1 J	17.6 J	2 J	2.2 J
Silver	0.66 J	3 U	3.1 U	1 U	1.4 U	1 U	1.6 U	2.5 U	1.9 U	2.3 U	0.67 J	1.4 U	1.2 U	1 U	1.3 U	1.2 U
Sodium	500 U	1490 U	1570 U	500 U	686 U	500 U	785 U	1230 U	952 U	1130 UJ	500 UJ	719 UJ	605 UJ	500 UJ	642 UJ	616 UJ
Thallium	0.37 J	0.27 J	7.8 U	0.53 J	3.4 U	2.5 U	3.9 U	6.1 U	4.8 U	5.6 U	0.98 J	3.6 U	3 U	4.2 J	3.2 U	3.1 U
Vanadium	60.7 J	66.7 J	68.8 J	62.9 J	9.1	25.2 J	10.4	19.1 J	15	23.2 J	58.2 J	2.5 J	0.63 J	24.7 J	2.8 J	0.88 J
Zinc	276 J	280 J	301 J	266 J	43.8	113 J	16.4	33.9 J	25.2	79.7 J	225 J	8.6 U	7.3 U	88.5 J	7.7 U	7.4 U
Mercury	0.24 J	0.23 J	0.32 J	0.25 J	0.014 J	0.22 J	0.085 J	0.14 J	0.092 J	0.23 U	0.21 J	0.14 U	0.12 U	0.31 J	0.59	0.12 U
Cyanide	0.91 J	1.5 UJ	1.6 UJ	0.67 J	0.69 UJ	2.5 UJ	0.78 UJ	1.2 UJ	0.95 UJ	1.1 UJ	0.47 J	0.72 UJ	0.22 J	7.9 J	0.34 J	0.62 UJ

RST 2 Sample ID	SD-016-0006-001	SD-017-0006-001	SD-018-0006-001	SD-019-0006-001	SD-020-0006-001	SD-021-0006-001	SD-021-0006-002**	SD-022-0006-001	SD-023-0006-001	SD-024-0006-001	SD-025-0006-001	SD-026-0006-001	SD-027-0006-001
CLP#	MBA8H1	MBA8H2	MBA8H3	MBA8H9	MBA8J2	MBA8K0	MBA8K1	MBA8K2	MBA8K5	MBA8K6	MBA8K8	MBA8L4	MBA8L5
Sample Date	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location	D3	D2	D1	GSR-MID-1	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
TAL Metals and Cyanide	<u>.</u>												
Aluminum	36000 J	597	13900 J	3630	19200	3030	3740	8260	445	7260 J	35400 J	39700 J	42500 J
Antimony	6 UJ	7.5 UJ	19.5 UJ	7.6 UJ	10.6 UJ	7 UJ	7.2 UJ	9 UJ	7.7 UJ	14.2 UJ	6 UJ	6 UJ	6 UJ
Arsenic	36.5 J	1.2 UJ	13.2 J	4.6 J	14.7 J	0.58 J	1.6 J	1 J	0.36 J	3.2 J	31.4 J	34 J	23.2 J
Barium	409 J	127	350 J	48.7	194	23.3 U	23.8 U	45.9	25.5 U	117 J	490 J	378 J	329 J
Beryllium	5.1 J	0.62 U	3 J	0.41 J	1.7	0.58 U	0.6 U	0.12 J	0.64 U	0.26 J	2.3 J	2 J	3.7 J
Cadmium	2.5 J	0.21 J	0.89 J	0.078 J	0.68 J	0.58 UJ	0.6 UJ	0.75 UJ	0.11 J	0.37 J	2.1 J	1.2 J	3.1 J
Calcium	2520 J	151 J	1040 J	326 J	1080	33.3 J	38 J	461 J	200 J	420 J	2530 J	2490 J	2620 J
Chromium	40.9 J	1.2 J	3.2 U	11.1	19.1	3.4 R	16.6 R	7.6	2.6	7.6 J	30.5 J	32.5 J	28.2 J
Cobalt	24.8 J	6.2 U	201 J	6.3 U	9.6	5.8 U	6 U	7.5 U	6.4 U	11.8 U	135 J	34.3 J	31.5 J
Copper	35.9 J	1.3 J	26.8 J	2.1 J	14.6	0.74 J	1.1 J	0.5 J	0.68 J	9 J	28.3 J	30.9 J	29.7 J
Iron	44700 J	768	11300 J	10700	26800	2530 J	4670 J	4990	386	2790 J	66700 J	28000 J	18200 J
Lead	97.5 J	5.2	94.2 J	24.4	54.6	3.5	4	6.3	6.5	65.2 J	108 J	94.4 J	118 J
Magnesium	2300 J	22,2 J	249 J	285 J	1410	119 J	137 J	596 J	35.1 J	609 J	2180 J	2440 J	2390 J
Manganese	2820 J	11200	41400 J	534	775	74.4 J	200 J	394	1690	75.9 J	11800 J	2460 J	1720 J
Nickel	27.4 J	0.85 J	12.8 J	2.6 J	11.8	1.3 J	1.9 J	1.9 J	0.64 J	6.1 J	45.3 J	23.8 J	27.1 J
Potassium	1450 J	624 U	1620 U	631 U	886	582 U	596 U	1040	639 U	1180 U	1320 J	1460 J	1210 J
Selenium	3.5 U	5.9	23.7 J	4.4 U	6.2 U	4.1 U	4.2 U	5.2 U	1.2 J	0.36 J	3.5 U	3.5 U	2.3 J
Silver	0.3 J	1.2 U	0.84 J	1.3 U	1.8 U	1.2 U	1.2 U	1.5 U	1.3 U	2.4 U	1.1 J	0.43 J	1 U
Sodium	499 UJ	624 UJ	1620 UJ	631 UJ	885 UJ	582 UJ	596 UJ	750 UJ	639 UJ	1180 UJ	500 UJ	500 UJ	500 UJ
Thallium	0.84 J	0.32 J	2.7 J	3.2 U	0.22 Ј	2.9 U	3 U	3.7 U	3.2 U	5.9 U	3.3 J	0.49 J	0.69 J
Vanadium	56.3 J	2.5 J	40.2 J	5.6 J	27.3	4.5 J	9	13.3	1.7 J	14.3 J	56.3 J	60.5 J	55.7 J
Zinc	208 J	7.5 U	59.5 J	19.8	91.2	7 U	7.2 U	9 U	7.7 U	42.8 J	162 J	174 J	367 J
Mercury	0.21 J	0.23	0.32 U	0.013 J	0.099 J	0.018 J	0.018 J	0.017 J	0.015 J	0.45 J	0.18 J	0.27 J	0.29 J
Cyanide	0.49 J	0.62 UJ	4.8 J	0.63 UJ	0.88 UJ	0.58 UJ	0.6 UJ	0.75 UJ	0.64 UJ	1.2 UJ	0.5 UJ	0.5 UJ	0.41 J

Note:

* Field duplicate of SD-001-0006-001

** Field duplicate of SD-021-0006-001

All data contained within the table has been validated and is reported in milligrams per kilograms (µg/Kg).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

R = Result is rejected

CLP = Contract Laboratory Program

TAL Metals = Target Analyte List Metals

Table 5 Validated Aqueous Sample Analytical Results Table (TCL VOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#	MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date	4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
TCL VOCs		1	1	1		1 0.50									100	
1,1,1-Trichloroethane	1.2	1.2	1.6	1.6	1.7	0.68	0.5 U	0.5 U	0.5 U	0.5 U	8.5 J	0.5 U	0.039 J	34	190	0.58 J
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane 1,1,2-Trichloroethane	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	18 U 18 U	6.3 U 6.3 U
1,1-Dichloroethane	0.3 U	0.3 U	0.3 U	0.3 U	0.41 J	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.5 U	5.2	14 J	6.3 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.53	0.5 U	0.5 U	0.5 U	0.5 U	0.45 J	0.5 U	0.5 U	1.5	18 U	6.3 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2-Dibromoethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,2-Dichloropropane	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	180 U	63 U
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	180 U	63 U
4-Methyl-2-Pentanone	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	180 U 180 U	63 U 63 U
Acetone Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Bromodichloromethane	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Carbon disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
cis-1,2-Dichloroethene	0.39 J	0.44 J	0.58	0.62	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.97	1.9	0.5 U	1.8	15	29	6.3 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Cyclohexane	0.5 UJ 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	18 U 18 U	6.3 U 6.3 U
Dibromochloromethane Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
m,p-Xylene*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Methyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Methylcyclohexane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Methylene Chloride	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Metyl ter-Butyl ether	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
o-Xylene*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Tetrachloroethene	2.4	2.4	3.1	3.1	3.4	5.1	0.97	0.5 U	0.5 U	2.8	18	4.9	9.3	56	340	160
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.27 J	18 U	6.3 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 U	6.3 U
Trichloroethene	0.34 J 0.5 U	0.32 J 0.5 U	0.44 J 0.5 U	0.47 J 0.5 U	0.49 J 0.5 U	0.85 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.59 0.5 U	2.7 0.5 U	0.38 J 0.5 U	1.2 0.5 U	10 0.5 U	49 18 U	7.3 6.3 U
Trichlorofluoromethane Vinyl Chlorida	0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U	0.5 U 0.5 U	0.5 U	0.5 U 0.5 U	0.5 U	0.5 U	0.5 U 0.5 U	0.5 U	0.5 U	18 U	6.3 U
Vinyl Chloride	0.5 0	0.5 0	0.5 0	0.5 0	0.5 0	0.5 U	0.5 0	0.5 U	0.5 U	0.5 0	0.5 0	U.J U	0.5 0	0.5 0	10 U	0.5 U

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

- UJ = Compound was not detected at a concentration above the reported limit; the value is estimated CLP = Contract Laboratory Program
 TCL VOCs = Target Compound List Volatile Organic Compounds

Table 5 Validated Aqueous Sample Analytical Results Table (TCL VOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001	PW-009-06-001	PW-010-06-001	PW-010-18-001
CLP#	MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7	MBA8E7	MBA8G0	MBA8G1
Sample Date	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	4/13/2012	04/13/2012	04/13/2012	04/13/2012	04/16/2012	4/16/2012	04/16/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	D3	D2	D1	GSR-MID	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GSR-BKG-2	C4	E3	E3
Matrix	Surface Water	Surface Water	Surface Water	Pore Water	Pore Water	Pore Water										
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L										
TCL VOCs	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L										
1,1,1-Trichloroethane	250	800	190	0.5 U	0.5 U	0.5 U	0.5 U	0.045 J	0.5 U							
1.1.2.2-Tetrachloroethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
, , ,	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane 1,1,2-Trichloroethane	25 U	83 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							
	50	54 J	21 U 30								0.5 U 0.46 J	0.5 U		0.5 U 0.57	0.5 U 0.15 J	
1,1-Dichloroethane				0.5 U			0.5 U			0.5 U						
1,1-Dichloroethene	15 J	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.49 J	0.5 U	0.5 U
1,2,3-Trichlorobenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.56	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.36 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	25 U	83 U	21 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
1,3-Dichlorobenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.57	0.5 U	0.5 U	1.2	0.65	0.93
1,4-Dichlorobenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.92	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	250 U	830 U	210 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	250 U	830 U	210 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	250 U	830 U	210 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	250 U	830 U	210 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 J	5 U	5 U	5 U
Benzene	25 U	83 U	21 U	0.5 U	0.13 J	0.5 U	0.52	0.5 U	0.5 U	0.23 J	0.5 U	0.5 U				
Bromochloromethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	25 U	83 U	21 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Bromoform	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U	0.5 U	0.094 J	0.35 J	0.5 U
Carbon Tetrachloride	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	25 U	83 U	21 U	0.16 J	0.22 J	0.5 U	1.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Chloroethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7	0.5 U	0.5 U
Chloroform	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	61	83 U	80	0.5 U	0.49 J	0.5 U	0.79	0.5 U	0.5 U	8.8	0.28 J	0.5 U				
cis-1,3-Dichloropropene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	25 U	83 U	21 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Dibromochloromethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene*	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	25 U	83 U	21 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
3	25 U	83 U	21 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U						
Metyl ter-Butyl ether			24 77	0 = **	0 7 77	0.7.77	0 = **	0.5.77	0.7.7	0 = **	0	0 = **	0 = **	0.7.77	0.7.7	0.5.77
o-Xylene*	25 U 25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U 0.5 U	0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U
Styrene		83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U			
Tetrachloroethene	490	1700	360	0.5 U	0.06 J	0.5 U	0.5 U	0.26 J	5.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	62	150	83	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	1.7	0.5 U	0.32 J	0.5 U	0.5 U	0.5 U	0.17 J	0.5 U
Trichlorofluoromethane	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.6	0.5 U	0.5 U

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated CLP = Contract Laboratory Program

 TCL VOCs = Target Compound List Volatile Organic Compounds

Table 5 Validated Aqueous Sample Analytical Results Table (TCL VOCs) Matlack, Inc. Site April 9 through 16, 2012

CFF	RST 2 Sample ID	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	PW-025-18-001	RB-041212	RB-041312	RB-041612	TB-040912	TB-041012	TB-041112	TB-041212	TB-041312	TB-041612
Surptice Column	CLP#	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8L1	MBA8D3	MBA8J6	MBA8L3	BA8D4	BA8D9	BA8F0	BA8F8	BA8J5	BA8L2
Number Per Name	Sample Date	4/12/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	4/12/2012	04/13/2012	04/16/2012	4/9/2012	4/10/2012	4/11/2012	4/12/2012	4/13/2012	4/16/2012
Million Farber 10	Sample Location	GSR-MID			GSR-MID-2	GSR-MID-2	Rinsate Blank	Rinsate Blank	Rinsate Blank		Trip Blank	Trip Blank	Trip Blank	Trip Blank	
Note Part	Matrix				Pore Water		Rinsate Blank	Rinsate Blank	Rinsate Blank	_		-		Trip Blank	-
No. Company															
State Stat		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L							
1622-Prosedure 15			1			1	1	1		1	1	1	1	1	1
1.53 Trighthouse, 2.5 C															
1.42-Technolomore															
Life Charlestone	, , , ,														
State Stat	* *														
1.53Friedenomenome	,						0.0								
1.58-Friederberson	,														
13.Different colorespreame	, ,-														
13.50 13.5	, ,														
13-Desiron/contracter 0.5 U 0.5															
13.Decompression 0.5 U 0															
130-Northopropries															
13-Decimensment 0.6 N 1.5	,														
J. S. Deliconference 0.5 U 0.5 U	* *														
State	*					_									
2-Hostonice S U S	,														
Madelys-Pentamone 5 U 5															
Accrosc S U S U Accrosc S U S U S U S U S U S U S U S															
Bareace	j														
Bonnechthoroughthape			0.45 J	0.15 J				0.5 U			0.5 U				
Bornoverleme	Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							
Bornomethane	Bromodichloromethane	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.46 J	0.32 J	0.32 J	0.5 U	0.52	0.37 J	0.14 J	0.34 J	0.31 J
Carbon desidafide	Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							
Carbon Feterschloride	Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							
Chlorophezene	Carbon disulfide	0.5 U	0.5 U	0.5 U	0.12 J	0.26 J				0.5 U	0.5 U	0.5 U	0.5 U		
Chlorestane	Carbon Tetrachloride	0.5 U				0.5 U	0.12 J	0.097 J		0.5 U		0.5 U	0.5 U		0.092 J
Chloroform	Chlorobenzene														
Coloromethane Color Coloromethane Color Colo	Chloroethane														
cis-12-Dichloroethene 0.5 U 0.52 0.5 U 0.5 U </th <th></th>															
Company Comp							0.0								
Cyclohexane	, , , , , , , , , , , , , , , , , , , ,														
Dichlorodelhane Distribution D	_ · · · · · · · · ·														
Dichlorodiffluoromethane 0.5 U 0															
Ethylbenzene 0.5 U															
Sopropylenzene 0.5 U 0.5 U 0.5 U 0.5 U 0.66 1.7 0.5 U															
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															
Methyl Acetate 0.5 U															
Methylcyclohexane 2.5 0.19 J 0.5 U	1														
Methylene Chloride 0.5 U 0.5 UJ	-														
Metyl ter-Butyl ether 0.5 U 0.5 U<															
o-Xylene* 0.5 U															
Styrene 0.5 U 0.64 J Toluene 0.5 U 0.11 J 0.085 J 0.11 J 0.094 J 0.14 J 0.12 J 0.11 J 0.13 J trans-1,2-Dichloroethene 0.5 U	, ,														
Tetrachloroethene 0.5 U 0.64 J Toluene 0.5 U 0.11 J 0.085 J 0.11 J 0.094 J 0.14 J 0.12 J 0.11 J 0.17 J 0.13 J trans-1,2-Dichloroethene 0.5 U 0.5 U <th>·</th> <th></th>	·														
Toluene 0.5 U 0.5	-														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				0.5 U					0.11 J		0.14 J				
trans-1,3-Dichloropropene 0.5 U 0.5		0.5 U	0.5 U	0.5 U		0.46 J	0.5 U			0.5 U				0.5 U	
Trichlorofluoromethane 0.5 U	-					0.5 U	0.5 U			0.5 U			0.5 U	0.5 U	
		0.5 U	0.25 J	0.76		0.61	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	
Vinyl Chloride 0.5 U	Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							
	Vinyl Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							

Note:

* Field duplicate of SW-001-001

** Field duplicate of SW-021-001

All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit
UJ = Compound was not detected at a concentration above the reported limit; the value is estimated
CLP = Contract Laboratory Program
TCL VOCs = Target Compound List Volatile Organic Compounds

Table 6 Validated Aqueous Sample Analytical Results Table (TCL SVOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#	MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date	4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix Dilution Factor	Surface Water 1.0															
Result Units	μg/L															
TCL SVOCs			, , ,	, ,	, ,		, ,	, , ,	, , ,	, , ,	, ŭ					, ,
1,1'-Biphenyl	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U									
2,2'-Oxybis(1-chloropropane) 2,3,4,6-Tetrachlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U 5 U
2,4,5-Trichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol 2,4-Dinitrotoluene	10 UJ 5 U	9.9 UJ 5 U	10 UJ 5 U	10 UJ 5 U	10 UJ 5 U	10 UJ 5 U	10 UJ 5 U	10 UJ 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 UJ
2,6-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol 2-Nitroaniline	5 U 10 U	5 U 9.9 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U
2-Nitrophenol	5 U	9.9 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	10 U	9.9 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	10 U	9.9 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 4-Chloro-3-methylphenol	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
4-Chloroaniline	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-phenylether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitroaniline	10 U 10 U	9.9 U 9.9 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U
4-Nitrophenol Acenaphthene	5 U	9.9 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U 5 U
Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Atrazine Benzaldehyde	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 UJ 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(a)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Benzo(g,h,I)perylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Benzo(k)fluoranthene Bis(2-chloroethoxy)methane	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 UJ 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 UJ 5 U
Bis(2-Chloroethyl)ether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-ethylhexyl)phthalate	2.5 J	4.1 J	2.8 J	2.5 J	2.1 J	5 U	2.2 J	2.2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	8.3
Butylbenzylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole Chrysene	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Dibenzofuran	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Diethylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate Di-n-octylphthalate	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene Hexachloroethane	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Isophorone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	5 U	5 U	5 U 5 U	5 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U	5 U
N-Nitrosodiphenylamine Pentachlorophenol	10 U	9.9 U	10 U	5 U 10 U	10 U	5 U 10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Phenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 CLP = Contract Laboratory Program

 TCL SVOCs = Target Compound List Semivolatile Organic Compounds

Table 6 Validated Aqueous Sample Analytical Results Table (TCL SVOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001	PW-009-06-001	PW-010-06-001	PW-010-18-001
CLP#	MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7	MBA8E7	MBA8G0	MBA8G1
Sample Date	4/12/2012 D3	4/12/2012 D2	4/12/2012 D1	4/12/2012 GSR-MID	4/13/2012 B3	4/13/2012	4/13/2012 A2	04/13/2012 B2	04/13/2012 B1	04/13/2012	04/16/2012 GSR-MID-2	4/16/2012 GSR-BKG-1	04/16/2012 GSR-BKG-2	4/12/2012 C4	4/12/2012 E3	4/12/2012 E3
Sample Location Matrix	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	A2 Surface Water	Surface Water	Surface Water	Surface Water	A1 Surface Water	Surface Water	Surface Water	Surface Water	Pore Water	Pore Water	Pore Water
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
TCL SVOCs			1					1	2.00		2.00	1		2.00	1	
1,1'-Biphenyl 1,2,4,5-Tetrachlorobenzene	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
2,2'-Oxybis(1-chloropropane)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
2,3,4,6-Tetrachlorophenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5 U 5 U	5 UJ 5 UJ	5 U 5 U	5 U 5 U	5 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
2,4-Dimethylphenol 2,4-Dinitrophenol	10 U	10 U	10 U	10 U	5 U 10 U	5 U 10 U	5 U 10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene 2-Methylphenol	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol 4-Bromophenyl-phenylether	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U
4-Chloro-3-methylphenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chloroaniline	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-phenylether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methylphenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitroaniline 4-Nitrophenol	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U
Acenaphthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Atrazine Benzaldehyde	5 U 5 U	5 UJ 2 J	5 UJ 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(a)anthracene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(g,h,I)perylene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene Bis(2-chloroethoxy)methane	5 U 5 U	5 UJ 5 U	5 UJ 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 UJ 5 U	5 U 5 U	5 UJ 5 U	5 U	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U
Bis(2-Chloroethyl)ether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Bis(2-ethylhexyl)phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4	5 U	3.2 J	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole Chrysene	5 U 5 U	5 U 5 UJ	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Dibenzo(a,h)anthracene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzofuran	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Diethylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethylphthalate	5 U	5 U	5 U	5 U	5 U 5 U	5 U	5 U 5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate Di-n-octylphthalate	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Fluoranthene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene Hexachloroethane	5 U 5 U	5 UJ 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Indeno(1,2,3-cd)pyrene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Isophorone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitroso-di-n-propylamine	5 U	5 U	5 U 5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine Pentachlorophenol	5 U 10 U	5 U 10 UJ	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U
Phenanthrene	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenol	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Thenor	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 CLP = Contract Laboratory Program

 TCL SVOCs = Target Compound List Semivolatile Organic Compounds

Table 6 Validated Aqueous Sample Analytical Results Table (TCL SVOCs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	RB-041212	RB-041312	RB-041612
CLP#	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8D3	MBA8J6	MBA8L3
Sample Date	4/12/2012	4/13/2012	4/13/2012	04/16/2012	4/12/2012	04/13/2012	04/16/2012
Sample Location	GSR-MID	В3	A2	GSR-MID-2	Rinsate Blank	Rinsate Blank	Rinsate Blank
Matrix	Pore Water	Pore Water	Pore Water	Pore Water	Rinsate Blank	Rinsate Blank	Rinsate Blank
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L						
TCL SVOCs	5 TY	C 11	5 YY	. T.	. II	C 11	7 YY
1,1'-Biphenyl 1,2,4,5-Tetrachlorobenzene	5 U 5 U						
2,2'-Oxybis(1-chloropropane)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,3,4,6-Tetrachlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10 U						
2,4-Dinitrotoluene	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 U
2,6-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene 2-Methylphenol	5 U 5 U						
2-Nitroaniline	10 U						
2-Nitrophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	10 U						
4,6-Dinitro-2-methylphenol	10 U						
4-Bromophenyl-phenylether	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chloroaniline	5 U	5 U	5 U	19	5 U	5 U	5 U
4-Chlorophenyl-phenylether	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitroaniline	10 U						
4-Nitrophenol Acenaphthene	10 U 5 U						
Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Atrazine	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzaldehyde	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(g,h,I)perylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethoxy)methane	5 U 5 U						
Bis(2-Chloroethyl)ether Bis(2-ethylhexyl)phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	5 U	5 U	5 U	2.3 J	5 U	5 U	5 U
Carbazole	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzofuran	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Diethylphthalate	5 U	5 U	5 U	1.1 J	5 U	5 U	5 U
Dimethylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octylphthalate Fluoranthene	5 U 5 U						
Fluorene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isophorone	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
		5 U	5 U	5 U	5 U	5 U	5 U
N-Nitroso-di-n-propylamine	5 U			~ **	~ **		
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine Pentachlorophenol	5 U 10 U	5 U 10 U	5 U 10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5 U	5 U	5 U				

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (μg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 CLP = Contract Laboratory Program

 TCL SVOCs = Target Compound List Semivolatile Organic Compounds

Table 7 Validated Aqueous Sample Analytical Results Table (TCL PCBs) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#	MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date	4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Surface Water															
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L															
TCL PCBs																
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1262	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1268	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

RST 2 Sample ID	SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001	PW-009-06-001	PW-010-06-001	PW-010-18-001
CLP#	MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7	MBA8E7	MBA8G0	MBA8G1
Sample Date	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	4/13/2012	04/13/2012	04/13/2012	04/13/2012	04/16/2012	4/16/2012	04/16/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	D3	D2	D1	GSR-MID	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GSR-BKG-2	C4	E3	E3
Matrix	Surface Water	Pore Water	Pore Water	Pore Water												
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L															
TCL PCBs																
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1262	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1268	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U	1 U	1 U

RST 2 Sample ID	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	RB-041212	RB-041312	RB-041612
CLP#	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8D3	MBA8J6	MBA8L3
Sample Date	4/12/2012	4/13/2012	4/13/2012	04/16/2012	4/12/2012	04/13/2012	04/16/2012
Sample Location	GSR-MID	В3	A2	GSR-MID-2	Rinsate Blank	Rinsate Blank	Rinsate Blank
Matrix	Pore Water	Pore Water	Pore Water	Pore Water	Rinsate Blank	Rinsate Blank	Rinsate Blank
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L						
TCL PCBs							
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1262	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1268	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Note:

* Field duplicate of SW-001-001

** Field duplicate of SW-021-001

All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

U = Compound was not detected at a concentration above the reported limit

CLP = Contract Laboratory Program

TCL PCBs = Target Compound List Polychlorinated Biphenyls

Table 8 Validated Aqueous Sample Analytical Results Table (TAL Metals and Cyanide) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#	MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date	4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix	Surface Water															
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L															
TAL Metals and Cyanide																
Aluminum	630 J	604 J	613 J	333 J	259 J	895 J	3230 J	46600 J	456 J	182 J	1010 J	72.6 J	29.5 J	3230 J	832	767
Antimony	60 U															
Arsenic	10 U	36.8	10 U	1.1 J	10 U											
Barium	200 U	363	200 U	301												
Beryllium	0.086 J	0.088 J	0.099 J	0.082 J	0.13 J	0.34 J	0.36 J	3.7 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.74 J	5 U	5 U	5 U	5 U	5 U	0.43 J	5 U	0.87 J
Calcium	19900	20400	20400	20200	20300	11200	8660	15200	9560	8210 U	19000	8510	8890	9350	6970	7290
Chromium	10 U	1.4 J	35.9	10 U	5.2 J	3.3 J	1.6 J									
Cobalt	0.93 J	0.93 J	1.2 J	0.82 J	0.69 J	3.2 J	3.6 J	15.5 J	50 U							
Copper	25 U	2.8 J	2.5 J	42.6	25 U	25 U	31.1	25 U	25 U	3.7 J	1.6 J	3.5 J				
Iron	1840	1770	1940	1510	1540	649	2030	22400	252	390	4280	100 U	100 U	5580	2370	844
Lead	10 U	4.8 J	17.4	302	10 U	10 U	2.4 J	10 U	10 U	22	5.5 J	15.4				
Magnesium	10200	10500	10700	10500	10400	5200	5000 U	7860	5000 U	5000 U	9740	5000 U	5000 U	5920	5060 J	5000 U
Manganese	556	559	669	561	493	225	135	379	83.1	657	809	308	541	3040	1900	31600
Nickel	2.3 J	40 U	40 U	40 U	40 U	3.3 J	5.8 J	50.3	3.5 J	40 U	3.8 J	40 U	40 U	4.8 J	1.7 J	2.9 J
Potassium	4000 J	4060 J	4090 J	3930 J	3910 J	1990 J	2190 J	7540	5000 U	5000 UJ	5000 UJ					
Selenium	1.1 J	0.84 J	1.3 J	35 U	35 U	1.1 J	1.3 J	3.5 J	35 U	35 U	1.7 J	35 U	35 U	3.3 J	35 U	35 U
Silver	10 U	1.4 J														
Sodium	36900	37400	40000	37900	37600	3370 J	2880 J	4050 J	5000 U	5000 U	30900	5000 U				
Thallium	25 U															
Vanadium	50 U	2 J	5.4 J	73.1	50 U	50 U	1.8 J	50 U	50 U	5.8 J	1.9 J	1.5 J				
Zinc	60 UJ	197 J	60 UJ	60 U	60 U											
Mercury	0.2 U	0.77	0.2 U	0.11 J	0.21	0.11 J										
Cyanide	10 U	10 U	10 U	0.26 J	10 U	10 U	10 U	0.11 J	10 U							

RST 2 Sample ID	SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001	PW-009-06-001	PW-010-06-001	PW-010-18-001
CLP#	MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7	MBA8E7	MBA8G0	MBA8G1
Sample Date	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	4/13/2012	04/13/2012	04/13/2012	04/13/2012	04/16/2012	4/16/2012	04/16/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location	D3	D2	D1	GSR-MID	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GSR-BKG-2	C4	E3	E3
Matrix	Surface Water	Pore Water	Pore Water	Pore Water												
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L															
TAL Metals and Cyanide																
Aluminum	727	1750	7250	127 J	66.9 J	2240 R	518 R	5830	473	4100	349	200 UJ	145 J	22800 J	1040 J	3410 J
Antimony	60 U	1.7 J	60 U	2.1 J	60 U											
Arsenic	0.81 J	1.2 J	9 J	10 U	10 U	1.3 J	10 U	18.4	10 U	2.8 J	10 U	10 U	10 U	17.5	10 U	10 U
Barium	200 U	200 U	215	200 U	200 U	200 U	200 U	281	200 U	488	320	375				
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	0.55 J	5 U	5 U	5 U	5 U	1.4 J	5 U	0.51 J	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	6870	7870	6670	19800	19600	20200	21200	11600	9250	1170 J	10800	21,600	19700	9700	14400	9680
Chromium	10 U	6.8 J	5.3 J	10 U	7.1 J	4.8 J	10 U	8 J	10 U	4 J	10 U	10 U	10 U	15.7	10 U	2.3 J
Cobalt	50 U	1 J	50 U	50 U	50 U	50 U										
Copper	1.6 J	3.8 J	7.6 J	25 U	25 U	3.5 J	2 J	28.3	3.7 J	10.4 J	1.1 J	25 U	0.9 J	7.8 J	25 U	1.1 J
Iron	1920	3300	18900	1050	1070	6040 J	4170 J	14500	1170	2300	19800	10 U	520	27700	71500	33500
Lead	3.3 J	10.7	37.6	2.1 J	10 U	6 J	3.1 J	152	16.3	39.7	3.5 J	536	2 J	43.4	10 U	3.5 J
Magnesium	5000 U	5000 U	5000 U	10300	10200	14200	10900	5000 U	5190	5000 U	9520	10 U	10300	6990	7280	7230
Manganese	1580	7130	11000	561	626	401 J	531 J	13600	12100	186	8890	12,000	129	2510	5570	2670
Nickel	0.95 J	2.7 J	7.6 J	40 U	1.9 J	2.8 J	1.6 J	11.7 J	3.3 J	4.3 J	3.2 J	682	40 U	12.7 J	1.4 J	40 U
Potassium	5000 UJ	0.2 U	5000 UJ	5000 U	5000 U	5000 U										
Selenium	35 U	40 U	35 U	3.1 J	5.2 J	3.1 J										
Silver	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U	1.5 J	10 U	10 U	10 U	3,930 J	10 U	10 U	10 U	10 U
Sodium	5000 U	5000 U	5000 U	22600	22700	22300	23600	5000 U	5000 U	12300	6150	1.2 J	26200	5600	29300	24600
Thallium	25 U	10 U	25 U	25 U	25 U	25 U										
Vanadium	50 U	5.1 J	15.1 J	50 U	50 U	2.6 J	50 U	26.6 J	50 U	7.6 J	50 U	27,800	50 U	22.5 J	1.7 J	5 J
Zinc	60 U	103	60 U	60 U	60 U	25 U	60 U	62.8 J	60 UJ	60 UJ						
Mercury	0.2 U	0.07 J	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.49	0.2 U	0.12 J	0.2 U	50 U	0.2 U	0.13 J	0.2 U	0.038 J
Cyanide	10 U	60 UJ	10 U	2.4 J	10 U	10 U										

- Note:

 * Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 R = Result is rejected.

 CLP = Contract Laboratory Program

 TAL Metals = Target Analyte List Metals

Table 8 Validated Aqueous Sample Analytical Results Table (TAL Metals and Cyanide) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	RB-041212	RB-041312	RB-041612
CLP#	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8D3	MBA8J6	MBA8L3
Sample Date	4/12/2012	4/13/2012	4/13/2012	04/16/2012	4/12/2012	04/13/2012	04/16/2012
Sample Location	GSR-MID	В3	A2	GSR-MID-2	Rinsate Blank	Rinsate Blank	Rinsate Blank
Matrix	Pore Water	Pore Water	Pore Water	Pore Water	Rinsate Blank	Rinsate Blank	Rinsate Blank
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Result Units	μg/L						
TAL Metals and Cyanide							
Aluminum	9800	3500	11700	827	200 UJ	200 U	10.1 J
Antimony	2.6 J	60 U					
Arsenic	1.1 J	2.5 J	10 U	1.1 J	10 U	10 U	10 U
Barium	2280	301	237	200 U	200 U	200 U	200 U
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	2.1 J	5 U	5 U	5 U	5 U
Calcium	63200	6620	4310 J	10700	5000 U	5000 U	5000 U
Chromium	7 J	3.2 J	16.7	10 U	10 U	10 U	10 U
Cobalt	50 U						
Copper	4.2 J	2.3 J	3.2 J	1.1 J	25 U	25 U	25 U
Iron	111000	7140	20900	2860	100 U	5.1 J	75.3 J
Lead	13.6	8.2 J	9.2 J	7.1 J	10 U	10 U	10 U
Magnesium	36800	8340	5830	9050	5000 U	5000 U	5000 U
Manganese	6540	2550	5080	24700	15 U	15 U	15 U
Nickel	1.5 J	2 J	14.8 J	2.5 J	40 U	40 U	40 U
Potassium	19000 J	5000 UJ	5000 UJ	5000 UJ	5000 U	5000 UJ	5000 UJ
Selenium	35 U						
Silver	1.7 J	10 U					
Sodium	1820000 J	19600	5000 U	8080	95.7 J	5000 U	5000 U
Thallium	25 U						
Vanadium	14.8 J	5.4 J	15.4 J	50 U	50 U	50 U	50 U
Zinc	60 U	60 U	60 U	60 U	60 UJ	60 U	60 U
Mercury	0.2 U	0.2 U	0.053 J	0.2 U	0.2 U	0.2 U	0.2 U
Cyanide	10 U						

Note:

* Field duplicate of SW-001-001

** Field duplicate of SW-021-001

All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

R = Result is rejected.

CLP = Contract Laboratory Program

TAL Metals = Target Analyte List Metals





U.S. ENVIRONMENTAL PROTECTION AGENCY

TEAM PROTECTOR

Office of Solid Waste and Emergency Response
Office of Superfund Remediation and Technology Innovation
Technology Innovation & Field Services Division

ENVIRONMENTAL RESPONSE TEAM

2890 Woodbridge Ave. Bldg. 18, MS-101 Edison, NJ 08837

Tel.: 732-321-6740 Fax: 732-321-6724

DATE: October 25, 2012

FROM: Marc S. Greenberg, Ph.D.,

U.S. EPA OSWER/OSRTI/TIFSD-Environmental Response Team

TO: Margaret (Alferman) Gregor,

On-Scene Coordinator

U.S. EPA Region 2, Edison, NJ

SUBJECT: Screening Level Aquatic Ecological Risk Analysis of PERC and TCE, Surface Water,

Sediment, and Pore Water Samples Collected 9-16 April, 2012Matlack, Inc. Site

The screening ecological values (SEVs) used to evaluate TCE and PERC in water and sediment samples collected at the Matlack Inc. Site are appropriate for evaluating low-level, chronic exposures of ecological receptors, such as aquatic invertebrates and fish. Given that some exceedances of some of these conservative screening values for PERC in surface water, and PERC and TCE in sediments were observed, this identifies the possibility there might be might be a risk of adverse aquatic ecological effects to such low level, chronic, direct contact exposures at specific seep locations within the site. Another way of stating this finding is that one cannot judge the potential ecological risks at specific locations at the site to be negligible. Although there were some exceedances of conservative screening values, it does not appear that any of the results indicate an immediate or acute threat to life or survival of the ecological receptors. Below is a more detailed discussion of the findings and this conclusion.

Sediment samples

There were 29 sediment samples taken with 19 detections of PERC and 12 detections of TCE. The sediment data are summarized in Table 1 (non-detects treated as zeros) and Table 2 (where ½ method detection limit (MDL) is substituted for non-detects). The screening analysis of the sediments is shown in Table 1a, and was based on the detect-only samples (*i.e.*, non-detects were treated as zeros). If one uses site-specific data to normalize the sediments to 1% total organic carbon (TOC), then only four samples of PERC (locations C1, D1, D2, E1) exceeded the SEVs and one sample for TCE (location D2) exceeded an SEV. These samples are all clustered in the same area of the site (see Figure 1). The exceedances of PERC SEVs at locations C1, E1, and D1 show generally low magnitudes of exceedance (a factor of 1.35 to 3.82). The PERC exceedance at location D2 was a factor of approximately 30 times the SEVs. The

TCE concentration at D2 exceeded only the lower of the two SEVs used by a factor of 1.12. The National Park Service has indicated a maximum permissible ecologically-relevant value for TCE in sediments and soils of 13 mg/kg. This value is higher than all the dry weight concentrations of TCE measured at the Site. While there is no similar permissible ecologically-relevant value for PERC, one could reasonably expect that it would be roughly half (approx. 6.5 mg/kg), based on other SEVs available. The only sample higher than this value was D1 (11 mg/kg) which has been discussed above as a sample with a generally low magnitude of exceedance of the conservative TOC-based SEVs. The PERC and TCE are not bioaccumulative compounds; therefore these contaminants would not be expected to impact the food chain or the overall structure of the ecosystem as a whole in this area of Grand Sprute Run. However, the limited exceedances of the conservative SEVs (Table 1a) indicate that chronic (longer term) sublethal (e.g., growth, reproduction) effects may occur to aquatic invertebrates and/or fish via direct exposure. Further investigation or analysis, such as those often conducted for baseline ecological risk assessment in the remedial program, would be needed to quantitatively assess these potential risks under more realistic environmental exposure assumptions. The results do not indicate that immediate or acutely toxic effects to life or survival would be expected at the levels observed at the Matlack, Inc. Site.

Surface water samples

There were 29 surface water samples taken with 20 detections of PERC and 19 detections of TCE. The surface water data are summarized in Table 3 (non-detects treated as zeros) and Table 4 (where ½ MDL is substituted for non-detects). The screening analysis of the surface water samples is shown in Table 3a, and was based on the detect-only samples (i.e., non-detects were treated as zeros). The maximum concentration of PERC in the water was observed at seep D2, and the level was 1,700 ug/L. This detected concentration for PERC was the only exceedance of the conservative SEVs. However, this detected concentration was below the mean 24-h LC_{50} (22,945 ug/L) and 96- LC_{50} (15,035 ug/L) values taken from numerous acute toxicity studies in the EPA ECOTOX(icology) Database of ecological effects (http://cfpub.epa.gov/ecotox/) (see Attachments 1 and 2). The observed value was near the 7-d LC50 of 1,400 ug/L obtained from a single study. The concentrations of TCE that were detected in the study were all below the conservative SEVs. Note that all screening values were greater than the MDL for both compounds, which indicates that appropriate analytical methods were employed for this risk evaluation. The conclusion from the analysis above is that while there may be a concern due to low-level chronic (long-term) direct exposures to PERC at a single location on the site, the data do not indicate that there is a concern for acute (short-term) and immediate ecological risks to aquatic receptors exposed to surface water at the site.

Pore water samples

There were 8 pore water samples taken with 1 detection of PERC and 4 detections of TCE. The pore water data are summarized in Table 5 (non-detects treated as zeros) and Table 6 (where ½ MDL is substituted for non-detects). The screening analysis of the pore water samples is shown in Table 5a, and was based on the detect-only samples (*i.e.*, non-detects were treated as zeros). All detected concentrations were many orders of magnitude less than the SEVs. Pore water samples could not be obtained from the same locations where exceedances in surface water and sediments were observed. This is identified as an uncertainty and potential data gap that may be addressed at a later time. There were no exceedances observed for the pore water samples that were collected.

Conclusions and Recommendations

- The results do not indicate that immediate or acutely toxic effects to life or survival would be expected at the levels observed in the sediments and surface water at the Matlack, Inc. Site.
- PERC and TCE are not bioaccumulative compounds and therefore these contaminants are not expected to impact the food chain or the overall structure of the ecosystem as a whole in this area of Grand Sprute Run.
- The limited exceedances of the conservative SEVs (Table 1a) indicate that chronic (longer term) sublethal (e.g., growth, reproduction) effects may occur to aquatic invertebrates and/or fish via direct exposure. Further investigation or analysis, such as those often conducted for baseline ecological risk assessment in the remedial program, would be needed to quantitatively assess these potential risks under more realistic environmental exposure assumptions.

Cc: David Rosoff, EPA Region 2, Edison, NJ Charles Nace, EPA Region 2, New York, NY Harry Compton, EPA-ERT, Edison, NJ

Table 1 Sediment Risk Assessment Table (Using "0" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID		SD-001-0006-001	SD-001-0006-002*	SD-002-0006-001	SD-003-0006-001	SD-004-0006-001	SD-005-0006-001	SD-006-0006-001	SD-007-0006-001	SD-008-0006-001	SD-009-0006-001	SD-010-0006-001	SD-011-0006-001	SD-012-0006-001	SD-013-0006-001	SD-014-0006-001	SD-015-0006-001
CLP#		BA8D7	BA8D8	BA8E9	BA8F1	BA8F2	BA8F3	BA8F4	BA8F5	BA8F6	BA8F7	BA8G2	BA8G4	BA8G6	BA8G8	BA8G9	BA8H0
Sample Date		04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location		GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor		1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Organic Carbon (TOC) (mg/kg)		66,000	Not Applicable	89,000	100,000	5,600	190,000	150,000	110,000	78,000	58,000	97,000	31,000	9,600	220,000	13,000	2,600
TCL VOCs					•	•	•	•					•	•	•	•	
1,1-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	4.4 J	6.9 U	66 J	17 U	15 U	14 U	18 U	8.4 J	8.4 U	1.5 J	80 J	0.81 J	1.3 J
Adjusted Values	μg/Kg	0	0	0	4.4	0	66	0	0	0	0	8.4	0	1.5	80	0.81	1.3
Tetrachloroethene	μg/Kg	4.1 J	5.8 J	35 UJ	48 UJ	1.6 J	30 J	3.8 J	1.7 J	2.5 J	5.4 J	76 J	21	11	1200 J	930	410 J
Adjusted Values	μg/Kg	4.1	5.8	0	0	1.6	30	3.8	1.7	2.5	5.4	76	21	11	1200	930	410
trans-1,2-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	47 J	17 U	15 U	1.3 J	18 U	19 J	0.95 J	1.7 J	140 J	54	13
Adjusted Values	μg/Kg	0	0	0	0	0	47	0	0	1.3	0	19	0.95	1.7	140	54	13
Vinyl Chloride	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RST 2 Sample ID (Concluded)	SD-016-0006-001		SD-018-0006-001				SD-021-0006-002**		SD-023-0006-001		SD-025-0006-001		SD-027-0006-001
CLP # (Concluded)	BA8H1	BA8H2	BA8H3	BA8H9	BA8J2	BA8K0	BA8K1	BA8K2	BA8K5	BA8K6	BA8K8	BA8L4	BA8L5
Sample Date (Concluded)	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location (Concluded)	D3	D2	D1	GSR-MID-1	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix (Concluded)	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor (Concluded)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Organic Carbon (TOC) (mg/kg) (Concluded)	89,000	3,700	64,000	5,300	82,000	2,400	Not Applicable	11,000	12,000	120,000	88,000	110,000	100,000
TCL VOCs													
1,1-Dichloroethene (29 samples; 0 hits) µg/Kg	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum 0.0													
Maximum 0.0 Mean 0.0													
Median 0.0													
SD of Median 0.0			-							-	-		
cis-1,2-Dichloroethene (29 samples; 11 hits) µg/Kg	3.6 J	1.1 J	230 J	6 U	17 U	4.6 U	5.4 U	6.9 U	3.9 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values (29 samples; 11 mits) µg/Kg	3.6 J	1.1 J	230 J 230	0	0	4.6 U	0	0.9 0	3.9 J	0	0	0	0
Adjusted values µg/kg Minimum 0.0	3.0	1.1	230	U	U	U	U	U	3.7	U	U	U	U
Maximum 230.0													
Mean 13.8													
Median 0.0													
SD of Median 45.6													
Tetrachloroethene (29 samples; 19 hits) µg/Kg	2.4 J	6000	11000 J	2.2 J	17 UJ	4.6 U	5.4 U	6.9 U	7.2 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values µg/Kg	2.4	6000	11000	2.2	0	0	0	0	7.2	0	0	0	0
Minimum 0.0	2	0000	11000	2.2	Ü	Ů	v	Ü	7.2	Ü	Ü	Ů	Ü
Maximum 11,000.0													
Mean 679.8													
Median 2.5													
SD of Median 2,284.1													
trans-1,2-Dichloroethene (29 samples; 1 hit) µg/Kg	25 UJ	6.6 U	3.6 J	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values µg/Kg	0	0	3.6	0	0	0	0	0	0	0	0	0	0
Minimum 0.0													
Maximum 3.6													
Mean 0.1													
Median 0.0													
SD of Median 0.7													
Trichloroethene (29 samples; 12 hits) µg/Kg	2.1 J	91	1000 J	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.3 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	2.1	91	1000	0	0	0	0	0	6.3	0	0	0	0
Minimum 0.0													
Maximum 1,000.0													
Mean 47.5													
Median 0.0													
SD of Median 186.0	45.00											****	****
Vinyl Chloride (29 samples; 0 hits) µg/Kg	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values µg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum 0.0			1							1	1		
Maximum 0.0		1	 	1				1		 	 		
Mean 0.0 Median 0.0													
Median 0.0 SD of Median 0.0													
SD of Median 0.0		1	1							l	l		

- Note:

 * Field duplicate of SD-001-0006-001

 ** Field duplicate of SD-021-0006-001

 All data contained within the table has been validated and is reported in micrograms per kilograms (μg/Kg).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 SD = Standard Deviation

 TCL VOCs = Target Compound List Volatile Organic Compounds

	Matrix	Screening Value	Type	Source
TCE	Sediment	1,600 µg/Kg	Screening benchmark	U.S. EPA. (1996a). EcoUpdate: Ecotox Thresholds. U. S. EPA, Office of Solid Waste and Emergency Response. 540/F-95/038.
	Sediment	1,600 µg/Kg	FW Low effect Level	NJ DEP (New Jersey Department of Environmental Protection) (1999). "Guidance for Sediment Quality Evaluations: Freshwater Sediment Screening Guidelines. Site Remediation Program." from http://www.state.nj.us/dep/srp/regs/sediment/table_01.htm.
	Sediment	$220\mu g/Kg$	Screening benchmark	U.S. EPA. (2008). Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA Office of Research and Development. EPA-600-R-02-016.
PCE	Sediment	530 μg/Kg	Screening benchmark	U.S. EPA. (2008). Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA Office of Research and Development. EPA-600-R-02-016.
	Sediment	450 µg/Kg	FW Low effect Level	NJ DEP (New Jersey Department of Environmental Protection) (1999). "Guidance for Sediment Quality Evaluations: Freshwater Sediment Screening Guidelines. Site Remediation Program." from http://www.state.nj.us/dep/srp/regs/sediment/table 01.htm.

Table 1a. Sediment data and screening results summary.

		Data	Summary			Screening	Results			
	Total Organic Carbon (TOC)		PERC (ug/kg	TCE	PERC	TCE	PERC Ratio to SEV of 530 µg/kg @	PERC Ratio to SEV of 450 µg/kg @	TCE Ratio to SEV of 1600 µg/kg @ 1%	TCE Ratio to SEV of 220 µg/kg @ 1%
Sample Location	(mg/kg)	% TOC	(μg/kg dry wt)	(μg/kg dry wt)	μg/kg @ 1% TOC	μg/kg @ 1% TOC	1% TOC ^a	1% TOC ^b	TOC ^{b,c}	TOC ^a
GSR-DST-1	66,000	6.6	4.1	0	0.62	0.00	0.00	0.00	0.00	0.00
GSR-DST-1	ND	1	5.8	0	5.80	0.00	0.01	0.01	0.00	0.00
GSR-DST-2	89,000	8.9	0	0	0.00	0.00	0.00	0.00	0.00	0.00
GSR-DST-3	100,000	10	0	0	0.00	0.00	0.00	0.00	0.00	0.00
F5	5,600	0.56	1.6	0	2.86	0.00	0.01	0.01	0.00	0.00
F4	190,000	19	30	47	1.58	2.47	0.00	0.00	0.00	0.01
F3	150,000	15	3.8	0	0.25	0.00	0.00	0.00	0.00	0.00
F2	110,000	11	1.7	0	0.15	0.00	0.00	0.00	0.00	0.00
F1	78,000	7.8	2.5	1.3	0.32	0.17	0.00	0.00	0.00	0.00
C4	58,000	5.8	5.4	0	0.93	0.00	0.00	0.00	0.00	0.00
E3	97,000	9.7	76	19	7.84	1.96	0.01	0.02	0.00	0.01
C3	31,000	3.1	21	0.95	6.77	0.31	0.01	0.02	0.00	0.00
C2	9,600	0.96	11	1.7	11.46	1.77	0.02	0.03	0.00	0.01
E2	220,000	22	1200	140	54.55	6.36	0.10	0.12	0.00	0.03
E1	13,000	1.3	930	54	715.38	41.54	1.35	1.59	0.03	0.19
C1	2,600	0.26	410	13	1576.92	50.00	2.98	3.50	0.03	0.23
D3	89,000	8.9	2.4	2.1	0.27	0.24	0.00	0.00	0.00	0.00
D2	3,700	0.37	6000	91	16216.22	245.95	30.60	36.04	0.15	1.12
D1	64,000	6.4	11000	1000	1718.75	156.25	3.24	3.82	0.10	0.71
GSR-MID-1	5,300	0.53	2.2	0	4.15	0.00	0.01	0.01	0.00	0.00
В3	82,000	8.2	0	0	0.00	0.00	0.00	0.00	0.00	0.00
A2	2,400	0.24	0	0	0.00	0.00	0.00	0.00	0.00	0.00
A2	ND	1	0	0	0.00	0.00	0.00	0.00	0.00	0.00
B2	11,000	1.1	0	0	0.00	0.00	0.00	0.00	0.00	0.00
B1	12,000	1.2	7.2	6.3	6.00	5.25	0.01	0.01	0.00	0.02
A1	120,000	12	0	0	0.00	0.00	0.00	0.00	0.00	0.00
GSR-MID-2	88,000	8.8	0	0	0.00	0.00	0.00	0.00	0.00	0.00
GSR-BKG-1	110,000	11	0	0	0.00	0.00	0.00	0.00	0.00	0.00
GRS-BKG-2	100,000	10	0	0	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

PERC = Tetrachloroethene; TCE = Trichloroethylene; NA = no data

PERC and TCE concentrations have been normalized to 1% TOC using sample-specific TOC

Gray cell indicates exceedance of a screening value

Benchmark Sources:

aScreening benchmark U.S. EPA. (2008). Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA Office of Research and Development. EPA-600-R-02-016. Freshwater Low Effect Level. New Jersey Department of Environmental Protection (1999). "Guidance for Sediment Quality Evaluations: Freshwater Sediment Screening Guidelines. Site Remediation Program." From http://www.state.nj.us/dep/srp/regs/sediment/table_01.htm.

^cScreening benchmark U.S. EPA. (1996a). EcoUpdate: Ecotox Thresholds. U. S. EPA, Office of Solid Waste and Emergency Response.

Table 2 Sediment Risk Assessment Table (Using "1/2 Detection Limit" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

		SD-001-0006-001	SD-001-0006-002*	SD-002-0006-001	SD-003-0006-001	SD-004-0006-001	SD-005-0006-001	SD-006-0006-001	SD-007-0006-001	SD-008-0006-001	SD-009-0006-001	SD-010-0006-001	SD-011-0006-001	SD-012-0006-001	SD-013-0006-001	SD-014-0006-001	SD-015-0006-001
CLP#		BA8D7	BA8D8	BA8E9	BA8F1	BA8F2	BA8F3	BA8F4	BA8F5	BA8F6	BA8F7	BA8G2	BA8G4	BA8G6	BA8G8	BA8G9	BA8H0
Sample Date		04/09/2012	04/09/2012	4/10/2012	4/11/2012	4/11/2012	04/11/2012	04/11/2012	04/11/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012	04/12/2012
Sample Location		GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor		1.0	1.0	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Organic Carbon (TOC) (mg/kg)		66,000	Not Applicable	89,000	100,000	5,600	190,000	150,000	110,000	78,000	58,000	97,000	31,000	9,600	220,000	13,000	2,600
TCL VOCs					•		•	•			•		•	•			
1,1-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	16.5	16.5	17.5	24	3.45	17.5	8.5	7.5	7	9	19.5	4.2	2.8	20	2.95	2.65
cis-1,2-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	4.4 J	6.9 U	66 J	17 U	15 U	14 U	18 U	8.4 J	8.4 U	1.5 J	80 J	0.81 J	1.3 J
Adjusted Values	μg/Kg	16.5	16.5	17.5	4.4	3.45	66	8.5	7.5	7	9	8.4	4.2	1.5	80	0.81	1.3
Tetrachloroethene	μg/Kg	4.1 J	5.8 J	35 UJ	48 UJ	1.6 J	30 J	3.8 J	1.7 J	2.5 J	5.4 J	76 J	21	11	1200 J	930	410 J
Adjusted Values	μg/Kg	4.1	5.8	17.5	24	1.6	30	3.8	1.7	2.5	5.4	76	21	11	1200	930	410
trans-1,2-Dichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	16.5	16.5	17.5	24	3.45	17.5	8.5	7.5	7	9	19.5	4.2	2.8	20	2.95	2.65
Trichloroethene	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	47 J	17 U	15 U	1.3 J	18 U	19 J	0.95 J	1.7 J	140 J	54	13
Adjusted Values	μg/Kg	16.5	16.5	17.5	24	3.45	47	8.5	7.5	1.3	9	19	0.95	1.7	140	54	13
Vinyl Chloride	μg/Kg	33 UJ	33 UJ	35 UJ	48 UJ	6.9 U	35 UJ	17 U	15 U	14 U	18 U	39 UJ	8.4 U	5.6 U	40 UJ	5.9 U	5.3 U
Adjusted Values	μg/Kg	16.5	16.5	17.5	24	3.45	17.5	8.5	7.5	7	9	19.5	4.2	2.8	20	2.95	2.65

DCT 4 C I. ID (C I. I. I)	CD 01/ 000/ 001	CD 017 0007 004	CD 010 0007 001	CD 010 0000 001	CD 020 0007 001	CD 021 0007 001	CD 021 0007 002**	CD 022 0007 001	CD 022 0007 004	CD 024 0007 004	CD 025 0007 004	CD 02/ 000/ 001	CD 027 0007 001
RST 2 Sample ID (Concluded)		SD-017-0006-001					SD-021-0006-002**			SD-024-0006-001			
CLP # (Concluded)	BA8H1	BA8H2	BA8H3	BA8H9	BA8J2	BA8K0	BA8K1	BA8K2	BA8K5	BA8K6	BA8K8	BA8L4	BA8L5
Sample Date (Concluded)	04/12/2012	04/12/2012	04/12/2012	04/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012	04/16/2012
Sample Location (Concluded)	D3	D2	D1	GSR-MID-1	B3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GRS-BKG-2
Matrix (Concluded)	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Dilution Factor (Concluded)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Organic Carbon (TOC) (mg/kg) (Concluded)	89,000	3,700	64,000	5,300	82,000	2,400	Not Applicable	11,000	12,000	120,000	88,000	110,000	100,000
TCL VOCs													
1,1-Dichloroethene (29 samples; 0 hits) µg/Kg	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	12.5	3.3	15.5	3	8.5	2.3	2.7	3.45	3.2	8	14.5	16	11
Minimum 2.3													
Maximum 24.0													
Mean 9.8													
Median 8.5													
SD of Median 6.6													
cis-1,2-Dichloroethene (29 samples; 11 hits) µg/Kg	3.6 J	1.1 J	230 J	6 U	17 U	4.6 U	5.4 U	6.9 U	3.9 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	3.6	1.1	230	3	8.5	2.3	2.7	3.45	3.9	8	14.5	16	11
Minimum 0.8													ļ
Maximum 230.0													
Mean 19.3													
Median 7.5													
SD of Median 44.3													
Tetrachloroethene (29 samples; 19 hits) µg/Kg	2.4 J	6000	11000 J	2.2 J	17 UJ	4.6 U	5.4 U	6.9 U	7.2 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	2.4	6000	11000	2.2	8.5	2.3	2.7	3.45	7.2	8	14.5	16	11
Minimum 1.6													
Maximum 11,000.0													
Mean 683.5													
Median 8.5													
SD of Median 2,283.0													
trans-1,2-Dichloroethene (29 samples; 1 hit) µg/Kg	25 UJ	6.6 U	3.6 J	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	12.5	3.3	3.6	3	8.5	2.3	2.7	3.45	3.2	8	14.5	16	11
Minimum 2.3													
Maximum 24.0													
Mean 9.4													
Median 8.0													
SD of Median 6.6	217	0.1	1000 7		17.777	1677	5 1 77	60.44	(2.7	1677	20.111	22.777	22 777
Trichloroethene (29 samples; 12 hits) µg/Kg	2.1 J	91	1000 J	6 U	17 UJ	4.6 U	5.4 U	6.9 U	6.3 J	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg	2.1	91	1000	3	8.5	2.3	2.7	3.45	6.3	8	14.5	16	11
Minimum 1.0				 		 			1				
Maximum 1,000.0 Mean 53.4				 		 			1				
Mean 53.4 Median 9.0				 	ļ	 		 					
Median 9.0 SD of Median 184.5				-		_		 	-	-			
	25 111	6611	21 111	6.11	17.11	4 6 77	5 4 77	6011	6.4.11	16 11	20 111	22 111	22 111
Vinyl Chloride (29 samples; 0 hits) µg/Kg	25 UJ	6.6 U	31 UJ	6 U	17 U	4.6 U	5.4 U	6.9 U	6.4 U	16 U	29 UJ	32 UJ	22 UJ
Adjusted Values μg/Kg Minimum 2.3	12.5	3.3	15.5	3	8.5	2.3	2.7	3.45	3.2	8	14.5	16	11
Minimum 2.3 Maximum 24.0				 	 	 		 					
													
Mean 8.6 Median 8.5				-		_		 	-	-			
Median 8.5 SD of Median 6.6													
SD of Median 6.6				1		l							

- Note:

 * Field duplicate of SD-001-0006-001

 ** Field duplicate of SD-021-0006-001

 All data contained within the table has been validated and is reported in micrograms per kilograms (µg/Kg).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 SD = Standard Deviation

 TCL VOCs = Target Compound List Volatile Organic Compounds

	Matrix	Screening Value	Type	Source
TCE	Sediment	1,600 µg/Kg	Screening benchmark	U.S. EPA. (1996a). EcoUpdate: Ecotox Thresholds. U. S. EPA, Office of Solid Waste and Emergency Response. 540/F-95/038.
	Sediment	1,600 µg/Kg	FW Low effect Level	NJ DEP (New Jersey Department of Environmental Protection) (1999). "Guidance for Sediment Quality Evaluations: Freshwater Sediment Screening Guidelines. Site Remediation Program." from http://www.state.nj.us/dep/srp/regs/sediment/table_01.htm.
	Sediment	$220\mu g/Kg$	Screening benchmark	U.S. EPA. (2008). Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA Office of Research and Development. EPA-600-R-02-016.
PCE	Sediment	530 μg/Kg	Screening benchmark	U.S. EPA. (2008). Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms; Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA Office of Research and Development. EPA-600-R-02-016.
	Sediment	450 µg/Kg	FW Low effect Level	NJ DEP (New Jersey Department of Environmental Protection) (1999). "Guidance for Sediment Quality Evaluations: Freshwater Sediment Screening Guidelines. Site Remediation Program." from http://www.state.nj.us/dep/srp/regs/sediment/table_01.htm.

Table 3 Surface Water Risk Assessment Table (Using "0" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID		SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#		MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date		4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location		GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix		Surface Water															
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs																	
1,1-Dichloroethene µg/	L	0.5 U	0.53	0.5 U	0.5 U	0.5 U	0.5 U	0.45 J	0.5 U	0.5 U	1.5	18 U	6.3 U				
Adjusted Values µg	L	0	0	0	0	0	0.53	0	0	0	0	0.45	0	0	1.5	0	0
cis-1,2-Dichloroethene µg/	L	0.39 J	0.44 J	0.58	0.62	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.97	1.9	0.5 U	1.8	15	29	6.3 U
Adjusted Values µg	L	0.39	0.44	0.58	0.62	0.7	0	0	0	0	0.97	1.9	0	1.8	15	29	0
Tetrachloroethene µg/	L	2.4	2.4	3.1	3.1	3.4	5.1	0.97	0.5 U	0.5 U	2.8	18	4.9	9.3	56	340	160
Adjusted Values µg	L	2.4	2.4	3.1	3.1	3.4	5.1	0.97	0	0	2.8	18	4.9	9.3	56	340	160
trans-1,2-Dichloroethene µg/	L	0.5 U	0.27 J	18 U	6.3 U												
Adjusted Values μg	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0.27	0	0
Trichloroethene µg/	L	0.34 J	0.32 J	0.44 J	0.47 J	0.49 J	0.85	0.5 U	0.5 U	0.5 U	0.59	2.7	0.38 J	1.2	10	49	7.3
Adjusted Values µg/	L	0.34	0.32	0.44	0.47	0.49	0.85	0	0	0	0.59	2.7	0.38	1.2	10	49	7.3
Vinyl Chloride µg/	L	0.5 U	18 U	6.3 U													
Adjusted Values μg/	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RST 2 Sample ID (Concluded)		SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001
CLP # (Concluded)		MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7
Sample Date (Concluded)		4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	4/13/2012	04/13/2012	04/13/2012	04/13/2012	04/16/2012	4/16/2012	04/16/2012
Sample Location (Concluded)		D3	D2	D1	GSR-MID	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GSR-BKG-2
Matrix (Concluded)		Surface Water												
Dilution Factor (Concluded)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs														
1,1-Dichloroethene (29 samples; 4 hits)	μg/L	15 J	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	15	0	0	0	0	0	0	0	0	0	0	0	0
Minimum	0.0													
Maximum	15.0													
Mean	0.6													
Median	0.0													
SD of Median	2.8													
cis-1,2-Dichloroethene (29 samples; 14 hits)	μg/L	61	83 U	80	0.5 U	0.49 J	0.5 U	0.79	0.5 U	0.5 U				
Adjusted Values	μg/L	61	0	80	0	0	0	0	0	0.49	0	0.79	0	0
Minimum	0.0													
Maximum	80.0													
Mean	6.7													
Median	0.0													
SD of Median	18.8													
Tetrachloroethene (29 samples; 20 hits)	μg/L	490	1700	360	0.5 U	0.06 J	0.5 U	0.5 U	0.26 J	5.1	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	490	1700	360	0	0.06	0	0	0.26	5.1	0	0	0	0
Minimum	0.0													
Maximum	1,700.0													
Mean	109.2													
Median	2.8													
SD of Median	330.5													
trans-1,2-Dichloroethene (29 samples; 1 hit)	μg/L	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum	0.0													
Maximum	0.3													
Mean	0.0													
Median	0.0													
SD of Median	0.1													
Trichloroethene (29 samples; 19 hits)	μg/L	62	150	83	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	1.7	0.5 U	0.32 J	0.5 U	0.5 U
Adjusted Values	μg/L	62	150	83	0	0	0	0	0.12	1.7	0	0.32	0	0
Minimum	0.0													
Maximum	150.0													
Mean	12.8													
Median	0.4													
SD of Median	33.3													
Vinyl Chloride (29 samples; 0 hits)	μg/L	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum	0.0											·	·	·
Maximum	0.0						1							
Mean	0.0													
Median	0.0													
SD of Median	0.0				i e	†	1	i e	t	i	i	i	i	

- *Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 SD = Standard Deviation

 TCL VOCs = Target Compound List Volatile Organic Compounds

	Matrix	Screening Value	Type	Source
TCE	Water	440 μg/L	Tier II Acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
	Water	$3900\mu g/L$	LA FW acute	Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart1, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf
PCE	Water	528 μg/L	FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites. www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
	Water	830 μg/L	Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
	Water	1290 μg/L	LA FW acute	Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart I, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf

Table 3a Surface Water Screening Ecological Value Results Table Matlack, Inc. Site April 9 through 16, 2012

						Surface V	Vater Screening Results	S		
Analyte	Screening Ecological Value (SEV)	Units	Sample Size	No. of Detects	Frequency of Detects	Max. Concentration	Max. Concentration HQ	No. of Samples > SEV	Max. Detection Limit	No. of Detection Limits > SEV
TCL VOC										
Tetrachloroethene	528 ^a						3.2	1		0
	830 ^b	μg/L	29	20	68.97%	1,700	2.0	1	0.5	0
	1,290 ^c						1.3	1		0
Trichloroethene	440 ^b	~//	20	19	65.520/	150	0.34	0	0.5	0
	3,900 ^c	μg/L	29	19	65.52%	150	0.04	0	0.5	0

Max. Concentration HQ = Ratio of the maximum measured value to the screening SEV No. of Samples > SE = Number of detection limits from non-detected samples greater than SEV

Type	Source
^a FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites.
	www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
^b Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1.
	Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
^c LA FW acute	Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart1, Chapter 11: Surface-Water Quality Standards.

 $www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf$

Table 4 Surface Water Risk Assessment Table (Using "1/2 Detection Limit" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID		SW-001-001	SW-001-002*	SW-002-001	SW-003-001	SW-004-001	SW-005-001	SW-006-001	SW-007-001	SW-008-001	SW-009-001	SW-010-001	SW-011-001	SW-012-001	SW-013-001	SW-014-001	SW-015-001
CLP#		MBA8D5	MBA8D6	MBA8E0	MBA8E1	MBA8E8	MBA8E2	MBA8E3	MBA8E4	MBA8E5	MBA8E6	MBA8F9	MBA8G3	MBA8G5	MBA8G7	MBA8H4	MBA8H5
Sample Date		4/9/2012	4/9/2012	4/10/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/12/2012
Sample Location		GSR-DST-1	GSR-DST-1	GSR-DST-2	GSR-DST-3	F5	F4	F3	F2	F1	C4	E3	C3	C2	E2	E1	C1
Matrix		Surface Water															
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs																	
1,1-Dichloroethene	μg/L	0.5 U	0.53	0.5 U	0.5 U	0.5 U	0.5 U	0.45 J	0.5 U	0.5 U	1.5	18 U	6.3 U				
Adjusted Values	μg/L	0.25	0.25	0.25	0.25	0.25	0.53	0.25	0.25	0.25	0.25	0.45	0.25	0.25	1.5	9	3.15
cis-1,2-Dichloroethene	μg/L	0.39 J	0.44 J	0.58	0.62	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.97	1.9	0.5 U	1.8	15	29	6.3 U
Adjusted Values	μg/L	0.39	0.44	0.58	0.62	0.7	0.25	0.25	0.25	0.25	0.97	1.9	0.25	1.8	15	29	3.15
Tetrachloroethene	μg/L	2.4	2.4	3.1	3.1	3.4	5.1	0.97	0.5 U	0.5 U	2.8	18	4.9	9.3	56	340	160
Adjusted Values	μg/L	2.4	2.4	3.1	3.1	3.4	5.1	0.97	0.25	0.25	2.8	18	4.9	9.3	56	340	160
trans-1,2-Dichloroethene	μg/L	0.5 U	0.27 J	18 U	6.3 U												
Adjusted Values	μg/L	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.27	9	3.15
Trichloroethene	μg/L	0.34 J	0.32 J	0.44 J	0.47 J	0.49 J	0.85	0.5 U	0.5 U	0.5 U	0.59	2.7	0.38 J	1.2	10	49	7.3
Adjusted Values	μg/L	0.34	0.32	0.44	0.47	0.49	0.85	0.25	0.25	0.25	0.59	2.7	0.38	1.2	10	49	7.3
Vinyl Chloride	μg/L	0.5 U	18 U	6.3 U													
Adjusted Values	μg/L	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	9	3.15

-														
RST 2 Sample ID (Concluded)		SW-016-001	SW-017-001	SW-018-001	SW-019-001	SW-020-001	SW-021-001	SW-021-002**	SW-022-001	SW-023-001	SW-024-001	SW-025-001	SW-026-001	SW-027-001
CLP # (Concluded)		MBA8H6	MBA8H7	MBA8H8	MBA8J0	MBA8J3	MBA8J7	MBA8J8	MBA8K3	MBA8K4	MBA8K7	MBA8K9	MBA8L6	MBA8L7
Sample Date (Concluded)		4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	4/13/2012	04/13/2012	04/13/2012	04/13/2012	04/16/2012	4/16/2012	04/16/2012
Sample Location (Concluded)		D3	D2	D1	GSR-MID	В3	A2	A2	B2	B1	A1	GSR-MID-2	GSR-BKG-1	GSR-BKG-2
Matrix (Concluded)		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Dilution Factor (Concluded)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs														
1,1-Dichloroethene (29 samples; 4 hits)	μg/L	15 J	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	15	41.5	11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Minimum	0.3													
Maximum	41.5													
Mean	3.0													
Median	0.3													
SD of Median	8.2													
cis-1,2-Dichloroethene (29 samples; 14 hits)	μg/L	61	83 U	80	0.5 U	0.49 J	0.5 U	0.79	0.5 U	0.5 U				
Adjusted Values	μg/L	61	41.5	80	0.25	0.25	0.25	0.25	0.25	0.49	0.25	0.79	0.25	0.25
Minimum	0.3													
Maximum	80.0													
Mean	8.3													
Median	0.4													
SD of Median	19.7													
Tetrachloroethene (29 samples; 20 hits)	μg/L	490	1700	360	0.5 U	0.06 J	0.5 U	0.5 U	0.26 J	5.1	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	490	1700	360	0.25	0.06	0.25	0.25	0.26	5.1	0.25	0.25	0.25	0.25
Minimum	0.1													
Maximum	1,700.0													
Mean	109.3													
Median	2.8													
SD of Median	330.5													
trans-1,2-Dichloroethene (29 samples; 1 hit)	μg/L	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L	12.5	41.5	11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Minimum	0.3	12.0	11.5		0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.20
Maximum	41.5													
Mean	2.9													
Median	0.3													
SD of Median	8.1													
Trichloroethene (29 samples; 19 hits)	ug/L	62	150	83	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	1.7	0.5 U	0.32 J	0.5 U	0.5 U
Adjusted Values	μg/L μg/L	62	150	83	0.25	0.25	0.25	0.25	0.12	1.7	0.25	0.32	0.25	0.25
Minimum	0.1	02	150	03	0.23	0.25	0.25	0.25	0.12	1.7	0.25	0.52	0.25	0.20
Maximum	150.0													
Mean	12.9													
Median	0.4													
SD of Median	33.3													
Vinyl Chloride (29 samples; 0 hits)	μg/L	25 U	83 U	21 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Adjusted Values	μg/L ug/L	12.5	41.5	11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Aujusteu values Minimum	μg/L 0.3	12.7	71.5	11	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Maximum	41.5			1					1					
Mean	2.9			 					1	 		 		
Median Median	0.3			1					1					
SD of Median	8.1			1					1					
SD of Median	0.1		l	I.	l .	l	l	l	1	I.	l	I.		

- *Field duplicate of SW-001-001

 ** Field duplicate of SW-021-001

 ** Field duplicate of SW-021-001

 All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

 J = The reported result is an estimated value

 U = Compound was not detected at a concentration above the reported limit

 UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

 CLP = Contract Laboratory Program

 SD = Standard Deviation

 TCL VOCs = Target Compound List Volatile Organic Compounds

TCE	Matrix Water Water	Screening Value 440 µg/L 3900 µg/L	Type Tier II Acute LA FW acute	Source Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division. Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart I, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf
PCE	Water	528 μg/L	FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites. www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
	Water	830 μg/L	Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
	Water	1200 u.g/I	I A EW acute	Louisiana Danastmant of Environmental Quality (LA DEQ) (2007) Surface Water Quality Standards Louisiana Title 32 Part IV Subpart Chanter 11: Surface Water Quality Standards, www.ena.gov/waterscrience/standards/washibrary/la/la 6 was ndf

Table 5 Pore Water Risk Assessment Table (Using "0" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

RST 2 Sample ID	PW-009-06-001	PW-010-06-001	PW-010-18-001	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	PW-025-18-001
CLP#	MBA8E7	MBA8G0	MBA8G1	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8L1
Sample Date	4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012
Sample Location	C4	E3	E3	GSR-MID	В3	A2	GSR-MID-2	GSR-MID-2
Matrix	Pore Water							
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs								
1,1-Dichloroethene (8 samples; 1 hit) µg/L	0.49 J	0.5 U						
Adjusted Values μg/L	0.49	0	0	0	0	0	0	0
Minimum 0.0								
Maximum 0.5								
Mean 0.1								
Median 0.0								
SD of Median 0.2								
cis-1,2-Dichloroethene (8 samples; 4 hits) µg/L	8.8	0.28 J	0.5 U	0.5 U	0.52	0.5 U	0.5 U	3.2
Adjusted Values μg/L	8.8	0.28	0	0	0.52	0	0	3.2
Minimum 0.0								
Maximum 8.8								
Mean 1.6								
Median 0.1								
SD of Median 3.1								
Tetrachloroethene (8 samples; 1 hit) µg/L	0.5 U	0.29 J	0.5 U	0.5 U				
Adjusted Values μg/L	0	0	0	0	0	0.29	0	0
Minimum 0.0								
Maximum 0.3								
Mean 0.0								
Median 0.0								
SD of Median 0.1								
trans-1,2-Dichloroethene (8 samples; 1 hit) µg/L	0.5 U	0.46 J						
Adjusted Values μg/L	0	0	0	0	0	0	0	0.46
Minimum 0.0								
Maximum 0.5								
Mean 0.1								
Median 0.0								
SD of Median 0.2								
Trichloroethene (8 samples; 4 hits) µg/L	0.5 U	0.17 J	0.5 U	0.5 U	0.25 J	0.76	0.5 U	0.61
Adjusted Values μg/L	0	0.47	0	0	0.25	0.76	0	0.61
Minimum 0.0								
Maximum 0.8								
Mean 0.3								
Median 0.1								
SD of Median 0.3								
Vinyl Chloride (8 samples; 1 hit) µg/L	1.6	0.5 U						
Adjusted Values μg/L	1.6	0	0	0	0	0	0	0
Minimum 0.0								
Maximum 1.6								
Mean 0.2								
Median 0.0								
SD of Median 0.6								

Note:
All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

J = The reported result is an estimated value
U = Compound was not detected at a concentration above the reported limit
UJ = Compound was not detected at a concentration above the reported limit; the value is estimated
CLP = Contract Laboratory Program
SD = Standard Deviation
TCL VOCs = Target Compound List Volatile Organic Compounds

TCE	Matrix Water Water	Screening Value 440 µg/L 3900 µg/L	Type Tier II Acute LA FW acute	Source Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division. Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart I, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf
PCE	Water	528 μg/L	FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites. www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
	Water	830 μg/L	Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
	Water	1290 μg/L	LA FW acute	Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart 1, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf

Table 5a Pore Water Screening Ecological Value Results Table Matlack, Inc. Site April 9 through 16, 2012

				Pore Water Screening Results										
Analyte	Screening Ecological Value (SEV)	Units	Sample Size	No. of Detects	Frequency of Detects	Max. Concentration	Max. Concentration HQ	No. of Samples > SEV	Max. Detection Limit	No. of Detection Limits > SEV				
TCL VOC														
Tetrachloroethene	528 ^a						0.0005	0		0				
	830 ^b	$\mu g/L$	8	1	12.50%	0.29	0.0003	0	0.5	0				
	1,290 ^c						0.0002	0		0				
Trichloroethene	440 ^b		0	4	50.00%	0.76	0.002	0	0.5	0				
	3,900 ^c	μg/L	8	4	30.00%	0.76	0.0001	0	0.5	0				

Max. Concentration HQ = Ratio of the maximum measured value to the screening SEV No. of Samples > SE = Number of detection limits from non-detected samples greater than SEV

Type	Source
^a FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites.
	www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
^b Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1.
	Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
LA FW acute	Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart1, Chapter 11: Surface-Water Quality Standards.

www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf

Table 5 Pore Water Risk Assessment Table (Using "1/2 Detection Limit" to Represent Non-Detects) Matlack, Inc. Site April 9 through 16, 2012

									_
RST 2 Sample ID		PW-009-06-001	PW-010-06-001	PW-010-18-001	PW-019-06-001	PW-020-06-001	PW-021-06-001	PW-025-06-001	PW-025-18-001
CLP#		MBA8E7	MBA8G0	MBA8G1	MBA8J1	MBA8J4	MBA8J9	MBA8L0	MBA8L1
Sample Date		4/12/2012	4/12/2012	4/12/2012	4/12/2012	4/13/2012	4/13/2012	04/16/2012	04/16/2012
Sample Location		C4	E3	E3	GSR-MID	В3	A2	GSR-MID-2	GSR-MID-2
Matrix		Pore Water							
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TCL VOCs									
1,1-Dichloroethene (8 samples; 1 hit)	μg/L	0.49 J	0.5 U						
Adjusted Values	μg/L	0.49	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Minimum	0.3								
Maximum	0.5								
Mean	0.3								
Median	0.3								
SD of Median	0.1								
cis-1,2-Dichloroethene (8 samples; 4 hits)	μg/L	8.8	0.28 J	0.5 U	0.5 U	0.52	0.5 U	0.5 U	3.2
Adjusted Values	μg/L	8.8	0.28	0.25	0.25	0.52	0.25	0.25	3.2
Minimum	0.3					* - *			
Maximum	8.8								
Mean	1.7								
Median	0.3								
SD of Median	3.0								
Tetrachloroethene (8 samples; 1 hit)	μg/L	0.5 U	0.29 J	0.5 U	0.5 U				
Adjusted Values	μg/L	0.25	0.25	0.25	0.25	0.25	0.29	0.25	0.25
Minimum	0.3								
Maximum	0.3								
Mean	0.3								
Median	0.3								
SD of Median	0.0								
trans-1,2-Dichloroethene (8 samples; 1 hit)	μg/L	0.5 U	0.46 J						
Adjusted Values	μg/L	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.46
Minimum	0.3	0.25	0.25	0.25	0.20	0.20	0.25	0.20	0.10
Maximum	0.5								
Mean	0.3								
Median	0.3								
SD of Median	0.1								
Trichloroethene (8 samples; 4 hits)	μg/L	0.5 U	0.17 J	0.5 U	0.5 U	0.25 J	0.76	0.5 U	0.61
Adjusted Values	μg/L μg/L	0.25	0.17 3	0.25	0.3 0	0.25	0.76	0.3 0	0.61
Adjusted values Minimum	μg/L 0.3	0.23	0.47	0.23	0.23	0.23	0.70	0.23	0.01
Maximum	0.8								
Mean	0.8								
Median Median	0.4								+
SD of Median	0.3								
Vinyl Chloride (8 samples; 1 hit)		1.6	0.5 U						
Adjusted Values	μg/L μg/L	1.6	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Adjusted values Minimum	μg/L 0.3	1.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Minimum Maximum	1.6								+
Maximum Mean	0.4								-
Median	0.4								+
Median SD of Median	0.5								-
SD of Median	0.5								

Note:

All data contained within the table has been validated and is reported in micrograms per liter (µg/L).

J = The reported result is an estimated value

U = Compound was not detected at a concentration above the reported limit

UJ = Compound was not detected at a concentration above the reported limit; the value is estimated

CLP = Contract Laboratory Program

SD = Standard Deviation

TCL VOCs = Target Compound List Volatile Organic Compounds

TCE	Matrix Water Water	Screening Value 440 µg/L 3900 µg/L	Type Tier II Acute LA FW acute	Source Source Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division. Louisiana Department of Environmental Quality (LA DEQ). (2007). Surface-Water Quality Standards. Louisiana Title 33, Part IX, Subpart 1, Chapter 11: Surface-Water Quality Standards. www.epa.gov/waterscience/standards/wqslibrary/la/la_6_wqs.pdf
PCE	Water	528 μg/L	FW acute	U.S. EPA Region 4. 2002. Ecological Risk Assessment Bulletin, 2/11/2002. Waste Management Division Freshwater Surface Water Screening Values for Hazardous Waste Sites. www.epa.gov/region4/waste/st/programs/riskassess/ecolbul.html
	Water	830 μg/L	Tier II acute	Suter, G. W., II and J. B. Mabrey. (1994). Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota; 1994 Revision. ES/ER/TM-96/R1. Oak Ridge National Laboratory (ORNL) Environmental Sciences Division.
	Water	1200 ug/I	I A FW acute	Louisiana Department of Environmental Quality (LA DEQ) (2007) Surface-Water Quality Standards Louisiana Title 23 Part IX Subnart Chanter 11: Surface-Water Quality Standards www.ena.gov/waterscience/standards/waslibrary/la/la 6 was rdf

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

DATE:

APR 1 2 2013

SUBJECT:

Removal Site Evaluation for the Matlack, Inc. Site, Woolwich Township,

Gloucester County, New Jersey

FROM:

Margaret (Alferman) Gregor, On-Scene Coordinator

Removal Action Branch

TO:

Joseph D. Rotola, Chief Removal Action Branch

SITE ID:

02P9; CERCLIS# NJD043584101

I. INTRODUCTION

On August 9, 2011, the United States Environmental Protection Agency (EPA) received a request from the New Jersey Department of Environmental Protection (NJDEP) to evaluate the Matlack Inc. Swedesboro Terminal Site (Site) for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Removal Action consideration and recommend the Site for inclusion on the National Priorities List (NPL). The Site was proposed for NPL inclusion on September 14, 2012. The Site is located on the south side of Route 322 (2160 Route 322 East; Block 6, Lot 5) in a mixed industrial, residential and rural area of Woolwich Township, New Jersey. It is a 70.26-acre parcel currently occupied by Liberty Kenworth, a medium and heavy duty truck sales and service center. Current on-site operations are limited to the northeastern portion of the Site, which is developed with an approximately 20,000-square foot, 14-bay service building and paved parking areas. A building of approximately 2,600 square feet housing a groundwater remediation system operated by NJDEP is located to the south of the service building. The remainder of the property is scrub brush and fields.

The Site is bordered by Route 322 to the north, undeveloped farmland to the east, Raccoon Creek and commercial property occupied by Interstate Aerial and Venezia Transportation to the south, and a portion of the Raccoon Creek Wildlife Management Area to the west. Grand Sprute Run runs northeast to southwest through the Wildlife Management Area adjacent to the west; this is a tributary to Raccoon Creek, which flows into the Delaware River approximately 5.5 miles

	Name: Matlack Inc. Init: ss Date: 2/28/13 Filename: MATLACK INC RSE											
Symbol	ERRD-RAB	ERRD-RAB	ERRD-RAB									
Surname	GREGOR MEN	WILSONFIL	ROTOLA	17-73 SW SILE III								
Date	02/28/2013	4913	ANA)	one steriose in								